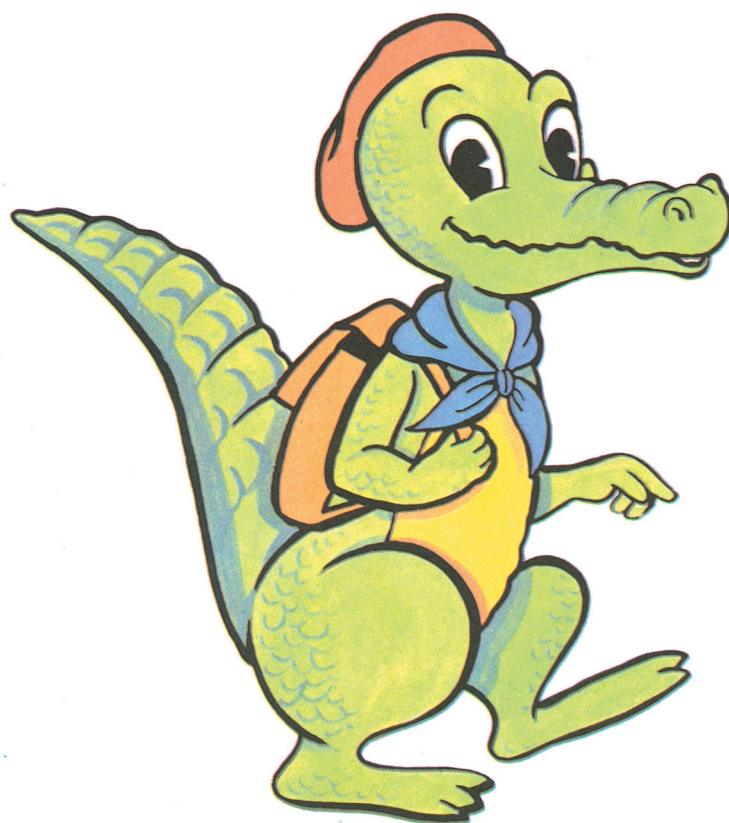


# Matemática 1



Editorial  
Pueblo y Educación

Este libro forma parte del conjunto de trabajos dirigidos al Perfeccionamiento Continuo del Sistema Nacional de Educación en la Educación General Politécnica y Laboral. Ha sido elaborado por un colectivo de autores integrado por metodólogos, maestros, profesores y especialistas, y revisado por la subcomisión correspondiente de la Comisión Nacional Permanente para la Revisión de Planes, Programas y Textos de Estudio del Instituto Central de Ciencias Pedagógicas del Ministerio de Educación. Agradecemos al colectivo de autores de la desaparecida RDA del libro *Matemática 1*, dirigido por el profesor Dr. Sc. Artur Wolf y a la Academia de Ciencias Pedagógicas de ese país, su asesoramiento y el habernos facilitado los materiales que sirvieron de base para este trabajo.

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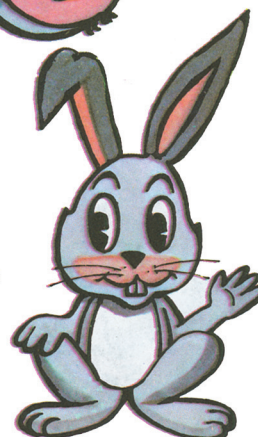
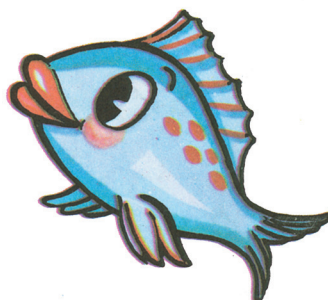
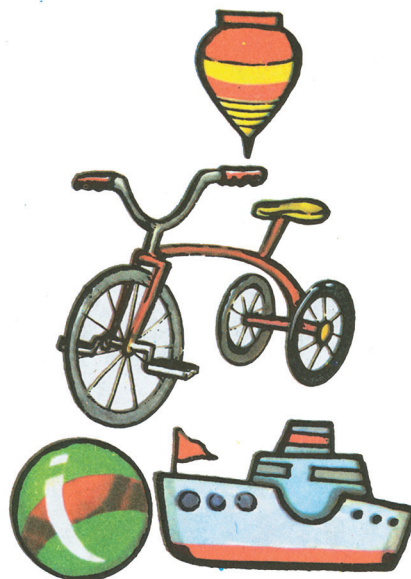
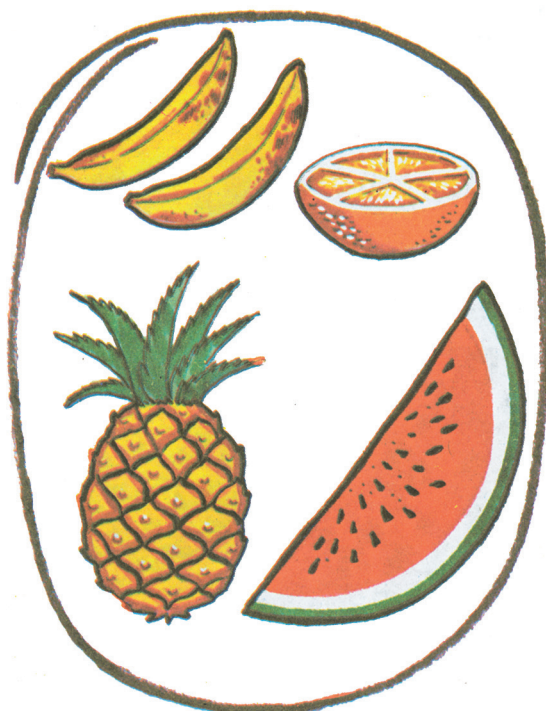
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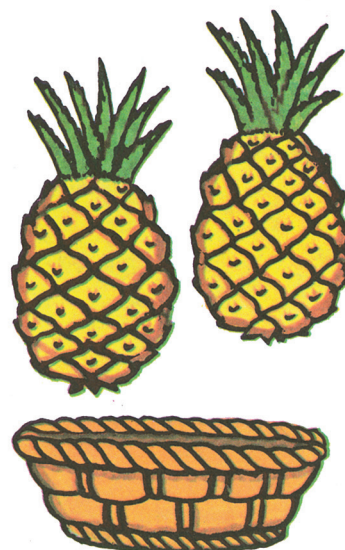
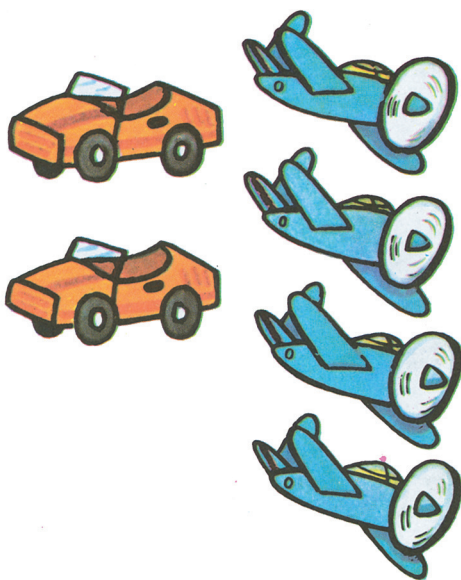
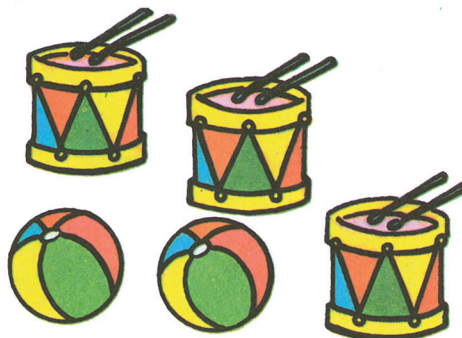


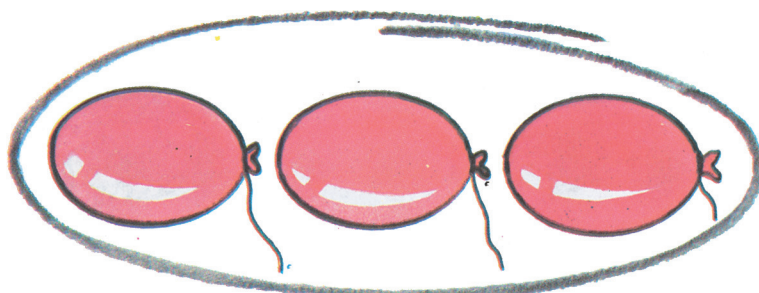
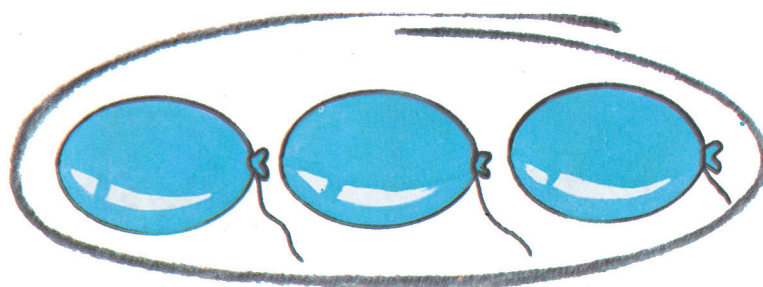
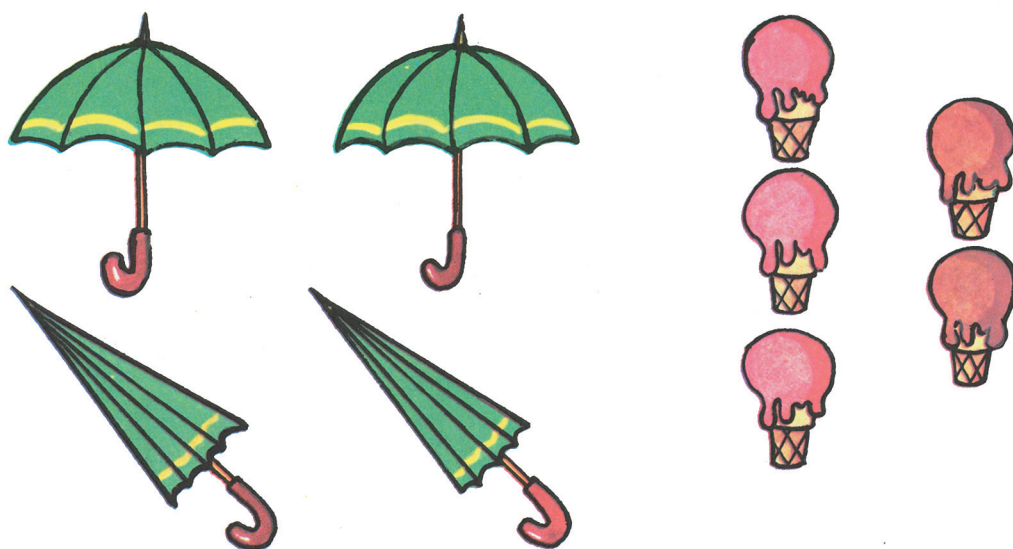


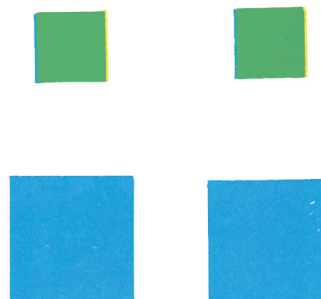
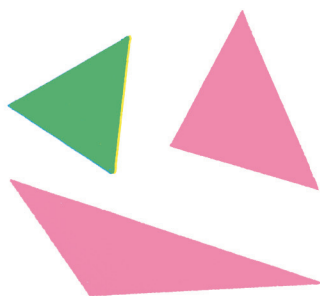
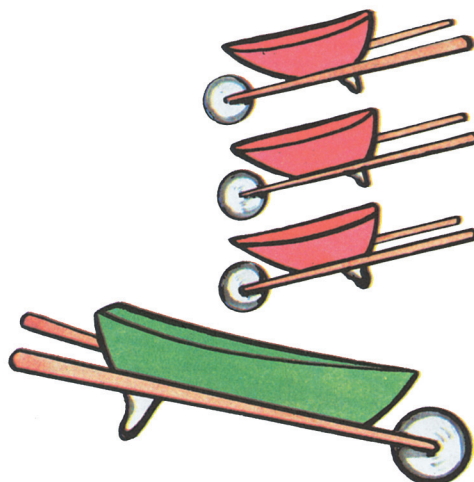
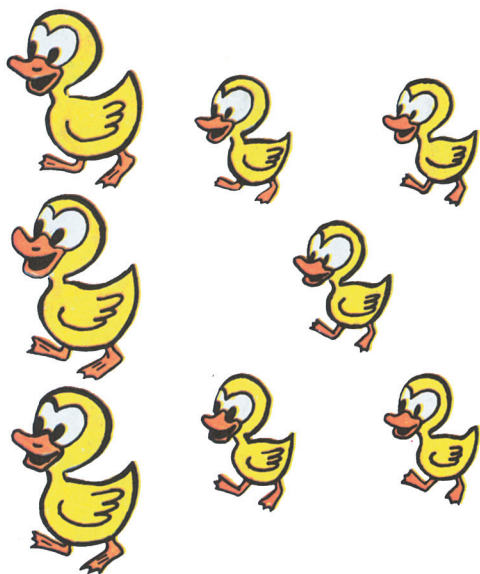
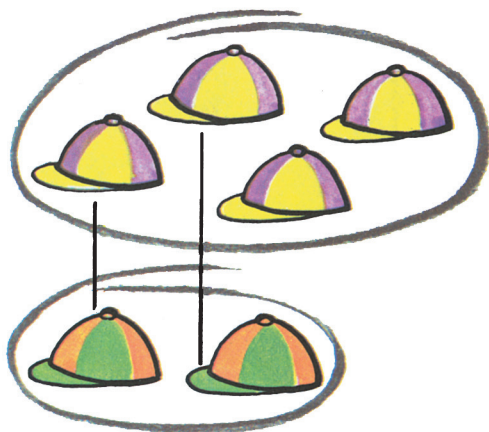




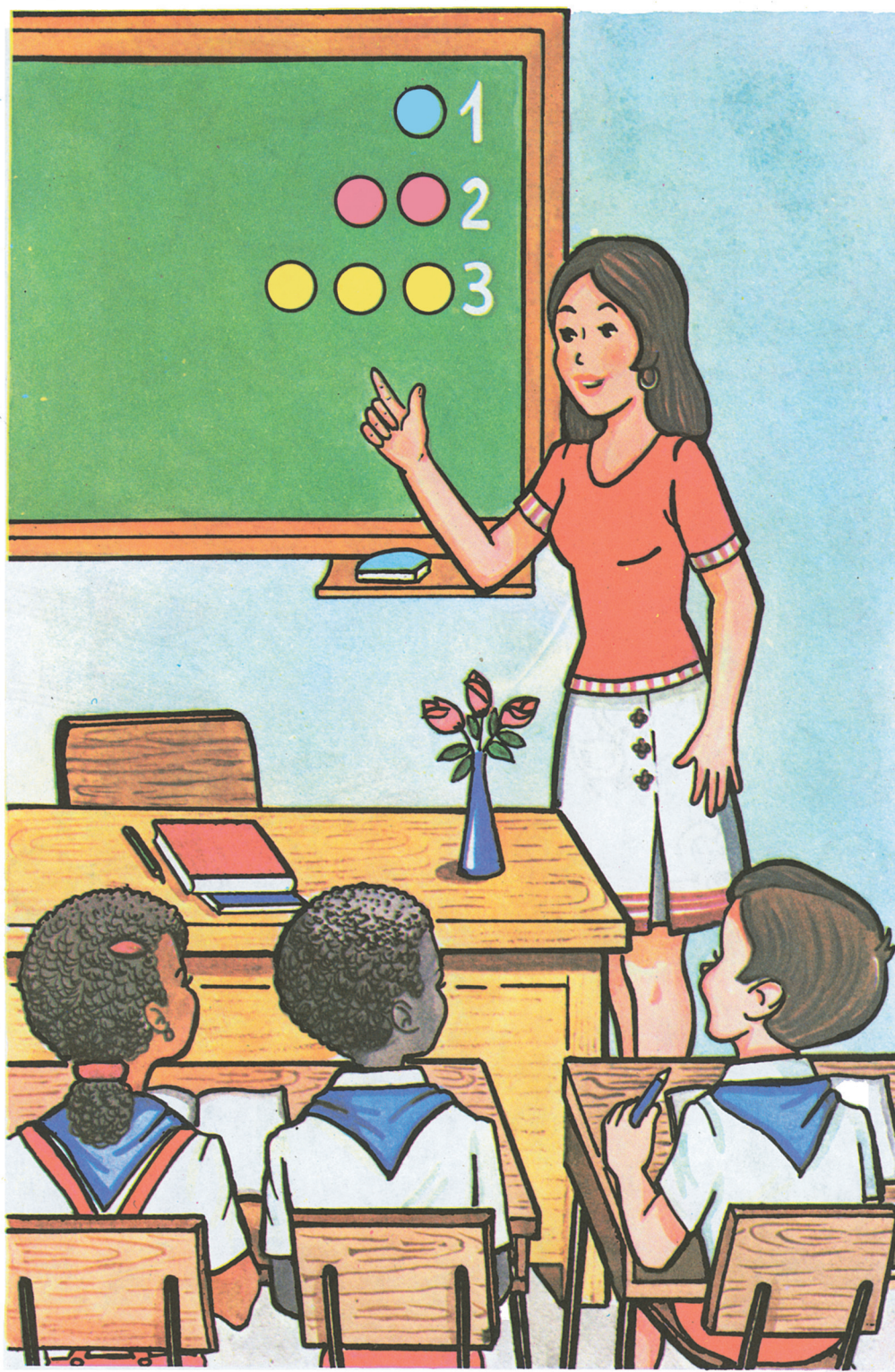
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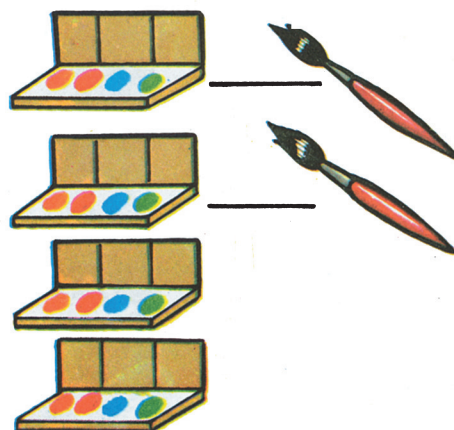
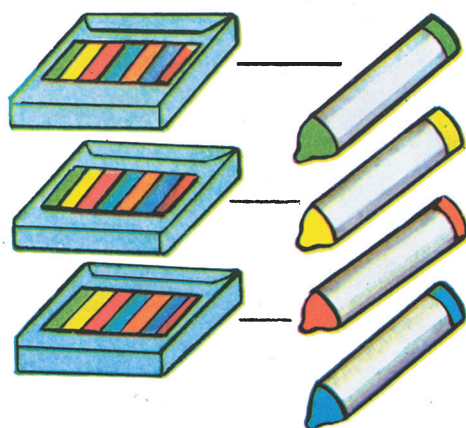
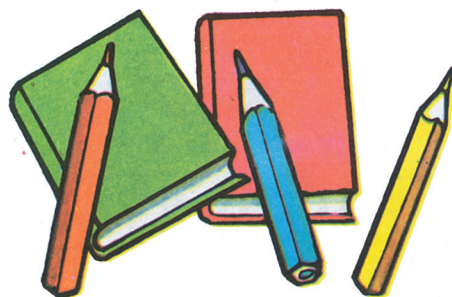




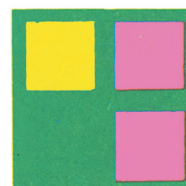
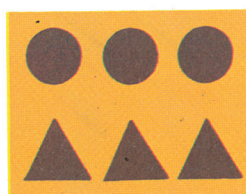
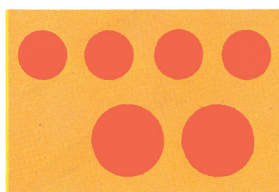
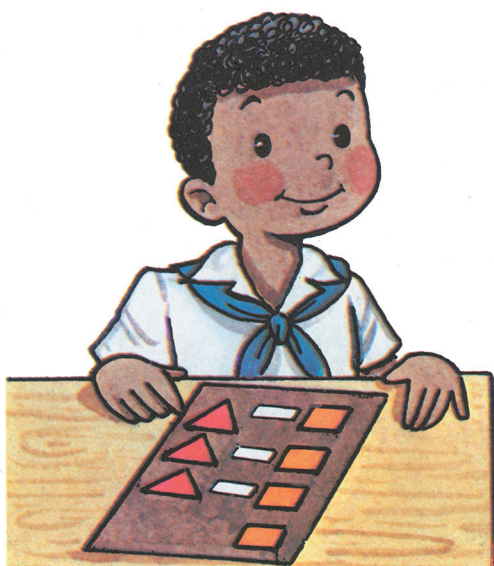






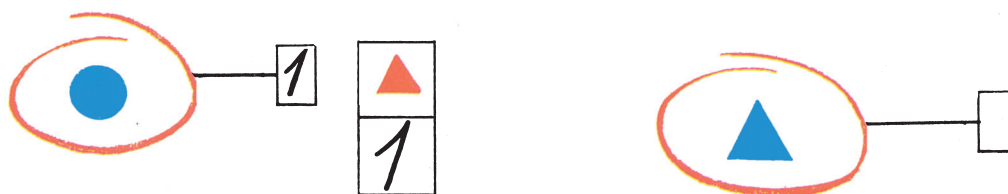
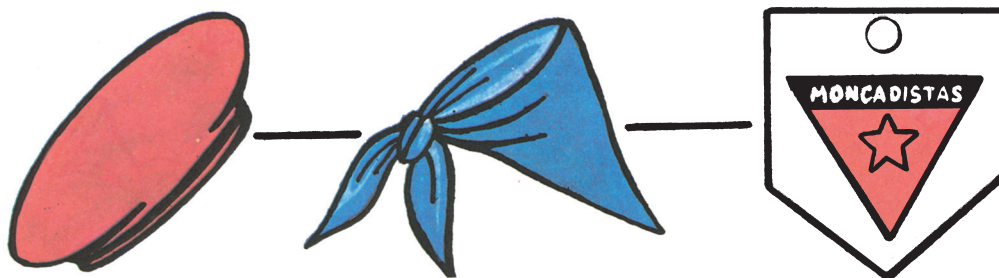








## Los números naturales desde 1 hasta 10

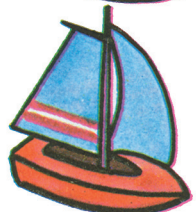




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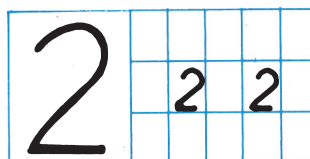
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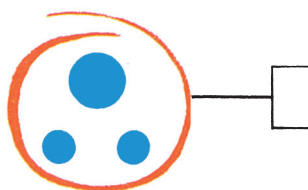
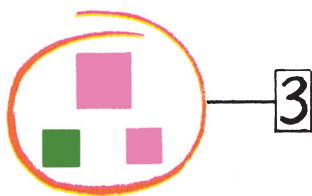
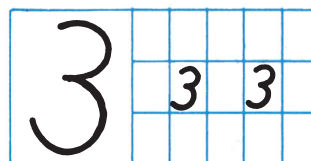
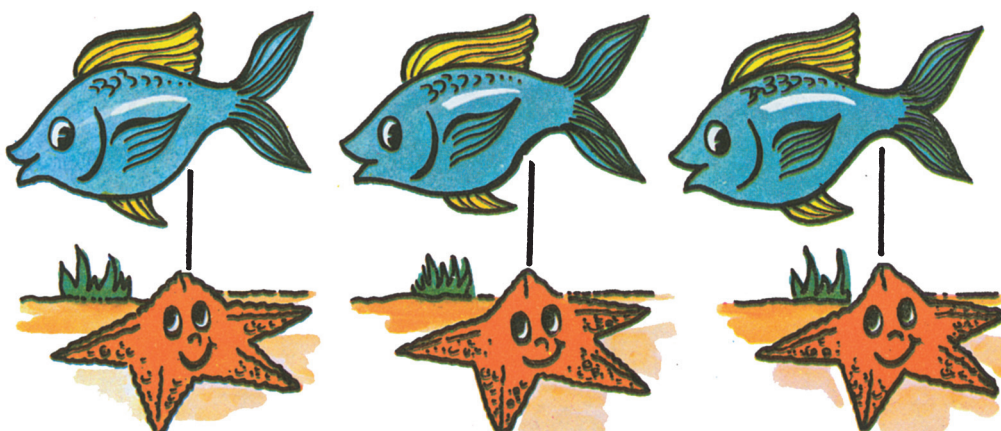


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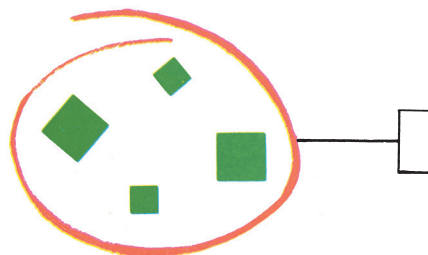
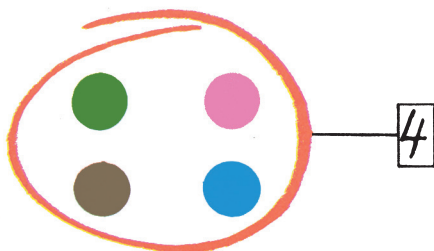
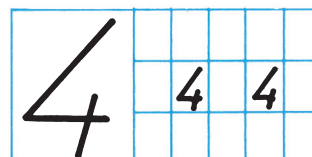
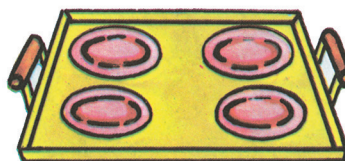


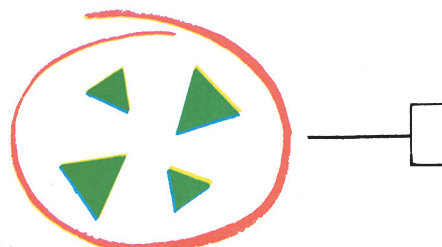
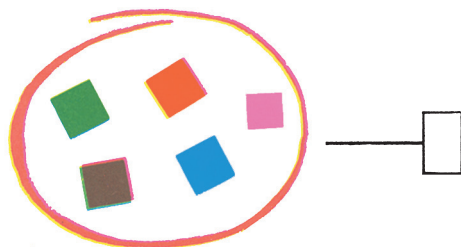
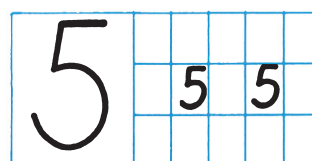
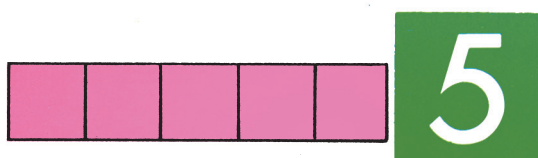
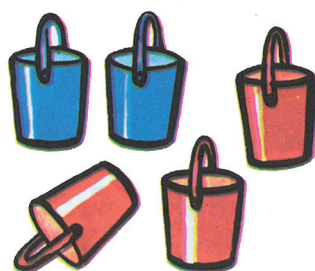
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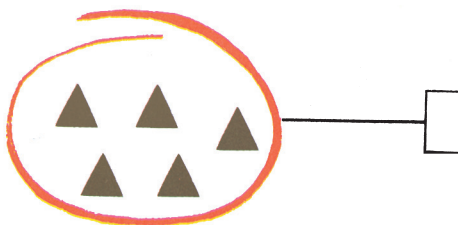
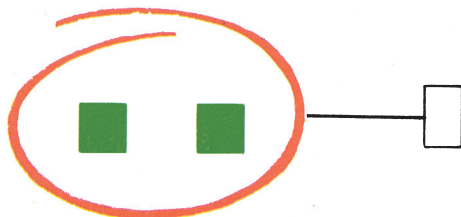
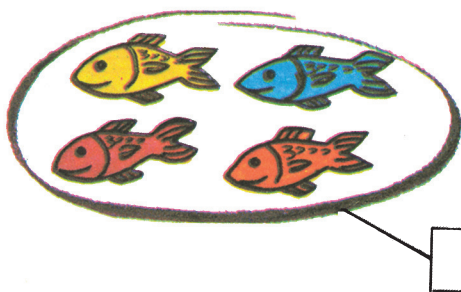


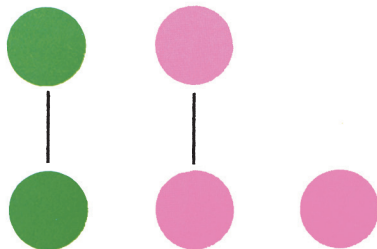
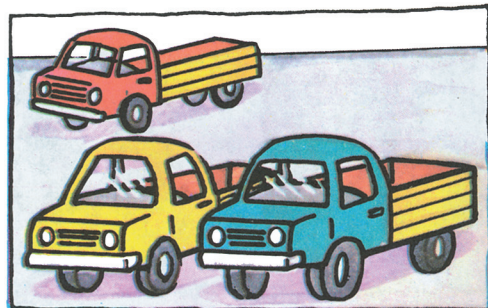
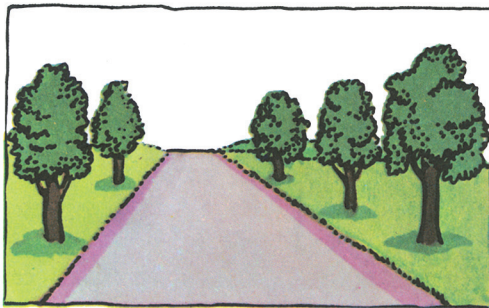




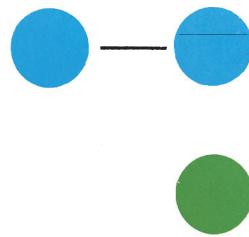








$$2 < 3$$

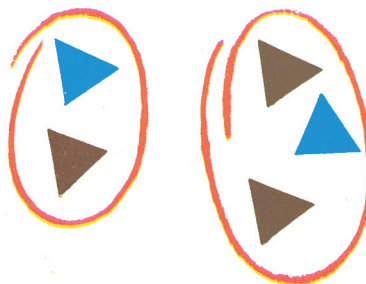
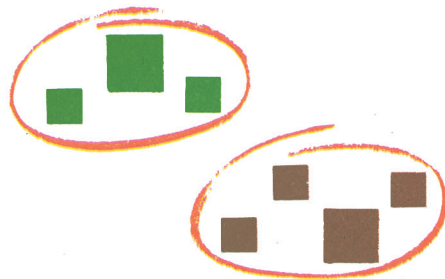
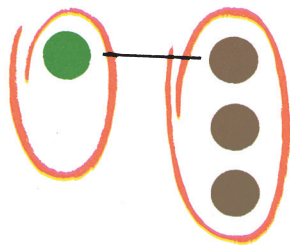


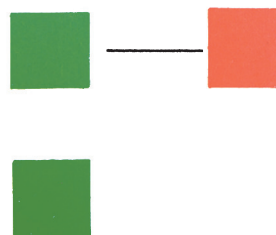
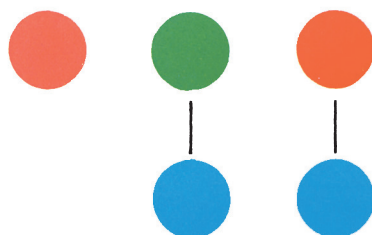
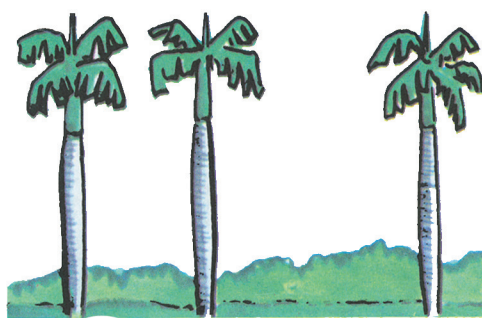
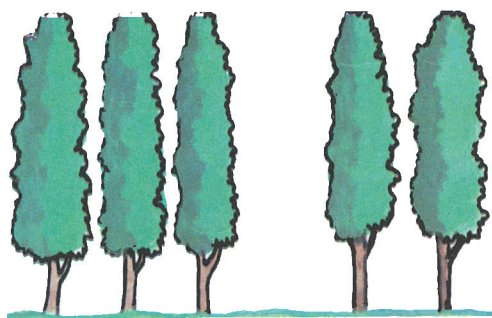
$$1 < 2$$



"es menor que"

$$1 < 3$$





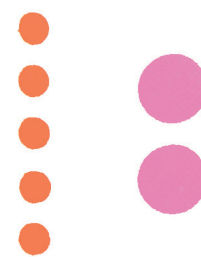
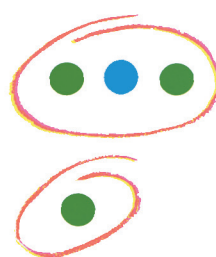
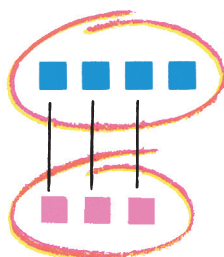
$$3 > 2$$

$$2 > 1$$

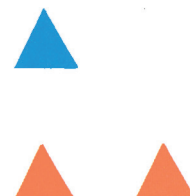
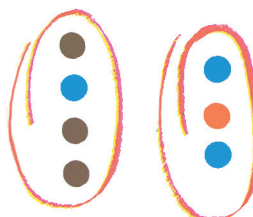
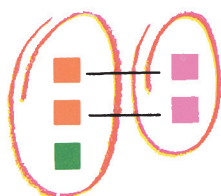


"es mayor que"

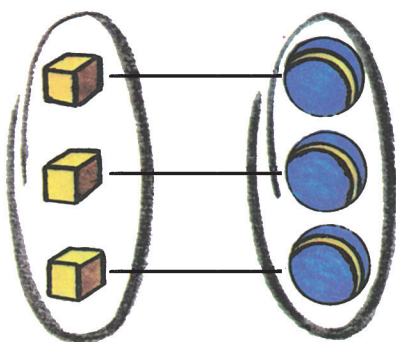
$$4 > 3$$



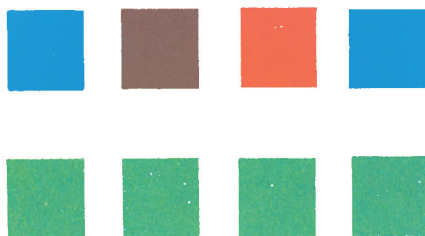
$$\begin{matrix} 2 < 3 \\ 3 > 2 \end{matrix}$$







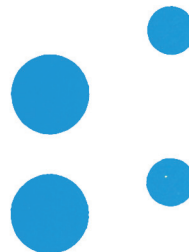
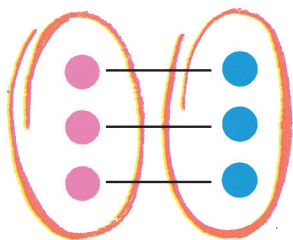
$$3 = 3$$



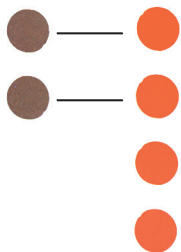
$$4 = 4$$



"es igual a"



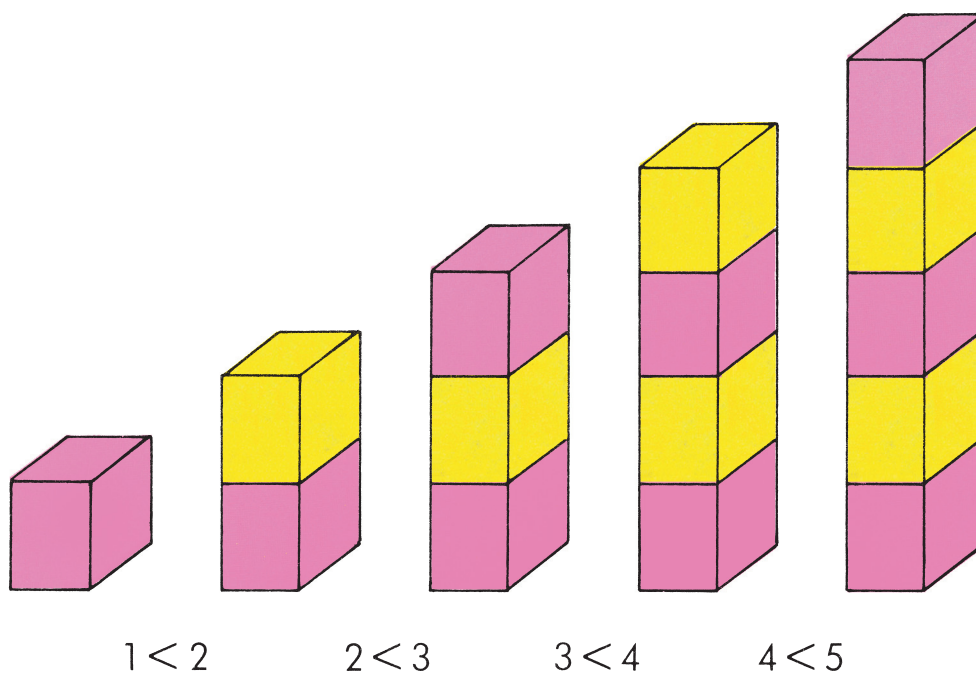
Compara 2 con 4



$$2 < 4$$

4	>	3
5	=	5
3		5
2		2
5		1

2	3
4	2
2	5
1	1
3	4



$1 < 2$

$2 < 3$

$3 < 4$

$4 < 5$

1, 2, 3, 4, 5, ... Los números están ordenados

①	
1 = 1	2 1
1 < 2	2 2
1 < 3	2 3
1 < 4	2 4
1 < 5	2 5

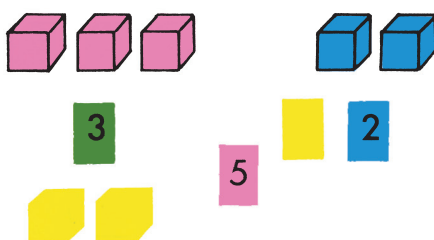
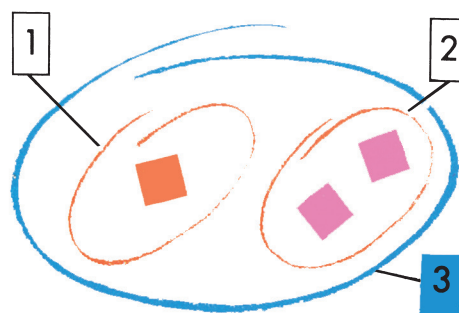
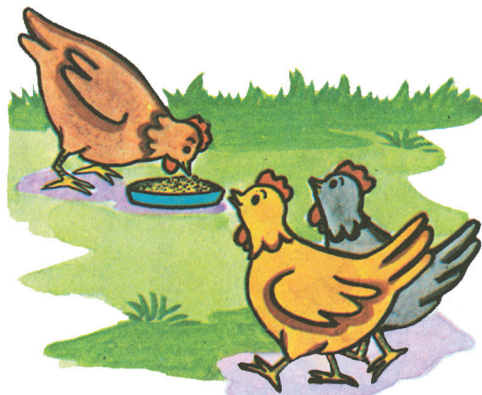
②	
3 1	
3 2	
3 3	
3 4	
3 5	

③	
4 1	
4 2	
4 3	
4 4	
4 5	

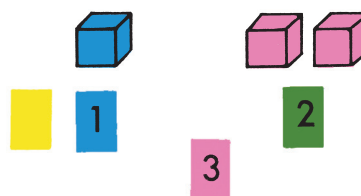
④	
5 1	
5 2	
5 3	
5 4	
5 5	

1, 2, 3, 4, 5, ...

El sucesor de 3 es 4. El antecesor de 3 es 2.



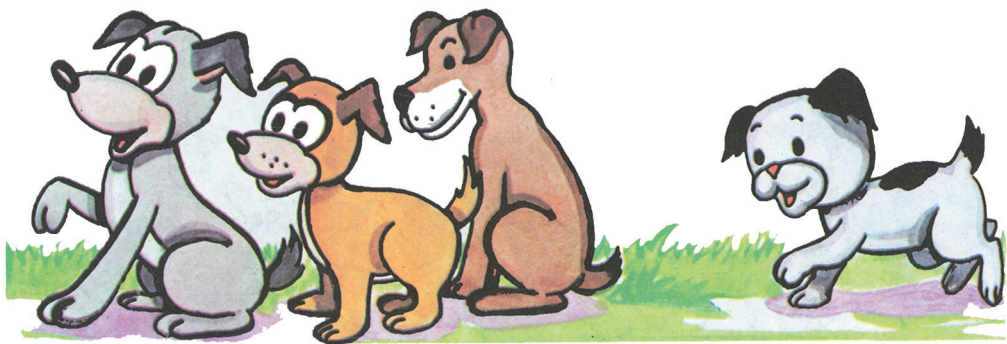
$$3 + 2 = 5$$



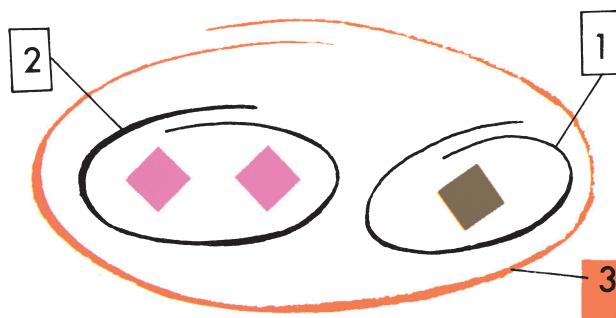
$$1 + 2 = 3$$



Este es el signo "más".



$$3 + 1 = 4$$

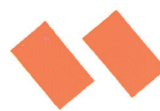


$$2 + 1 = \square$$

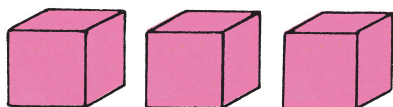
①

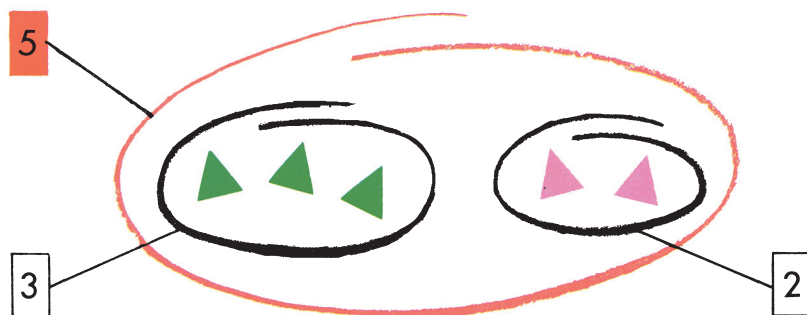
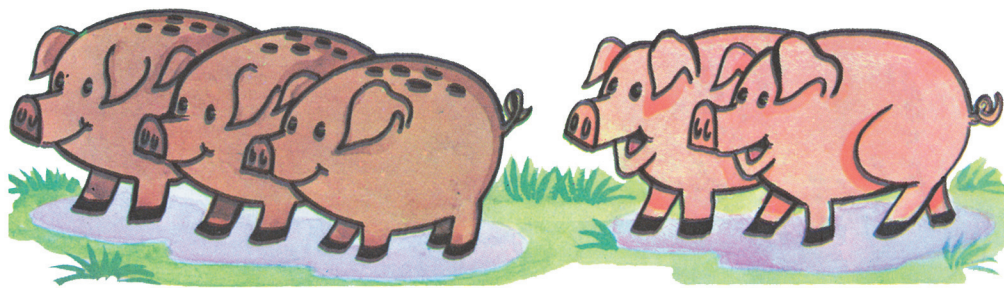


②



③





$$5 = 3 + 2$$

①



$$3 = 2 + 1$$

②



$$4 = \square + \square + \square + \square$$

③



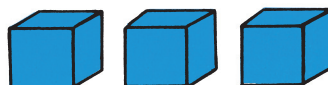
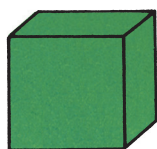
④



⑤



⑥







3

4

1

$$3 + 1 = 4$$

$$4 = 3 + 1$$



$$2 + 3 = 5$$

$$5 = 2 + 3$$



$$3 + 2 = 5$$

$$5 = 3 + 2$$

①



②



③



④





6

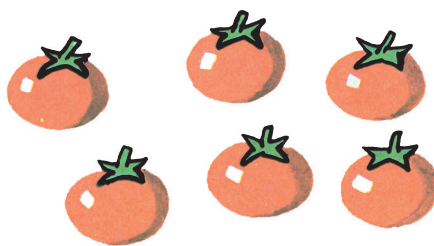
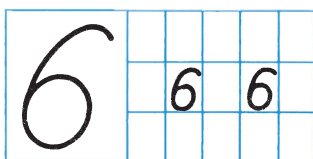


$$5 + 1 = 6$$

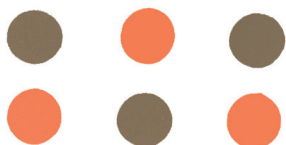
$5 + 1 = 6$  El sucesor de 5 es 6.

1, 2, 3, 4, 5, 6, ...

①

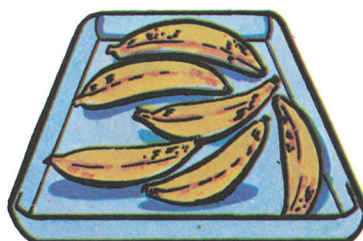
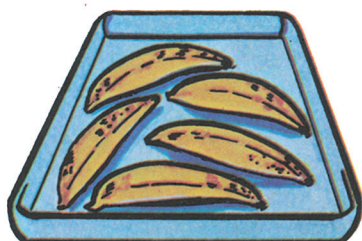


②



③

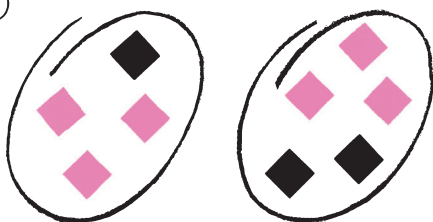




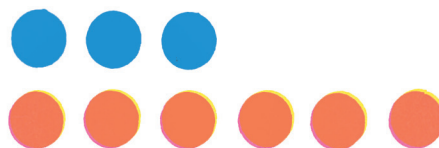
$$5 < 6$$

$$6 > 5$$

①



②



③

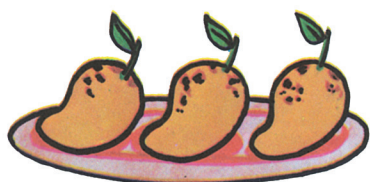
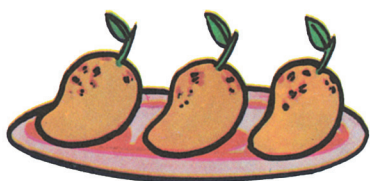
3	<	6
6		2
6		6

④

1	6
4	6
6	3

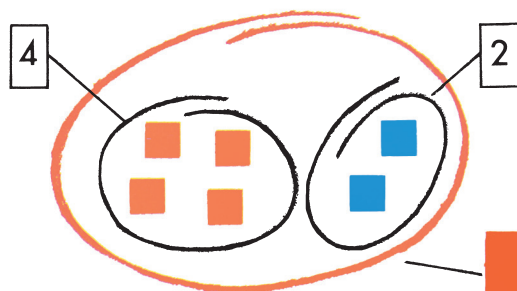
⑤

6	5
3	6
6	4

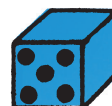
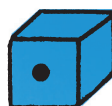


$$3 + 3 = 6$$

①



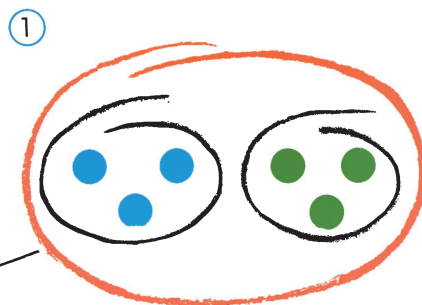
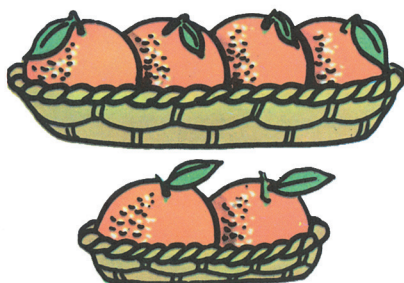
②



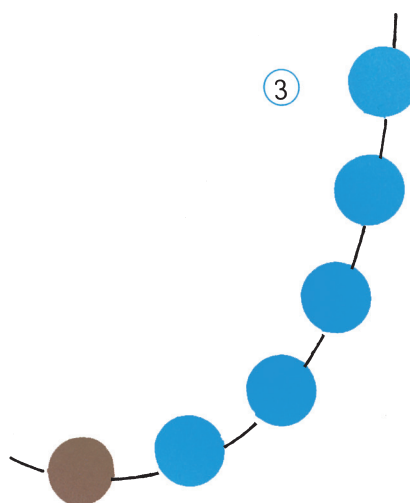
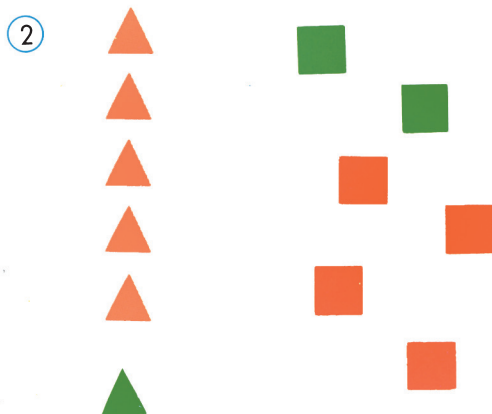


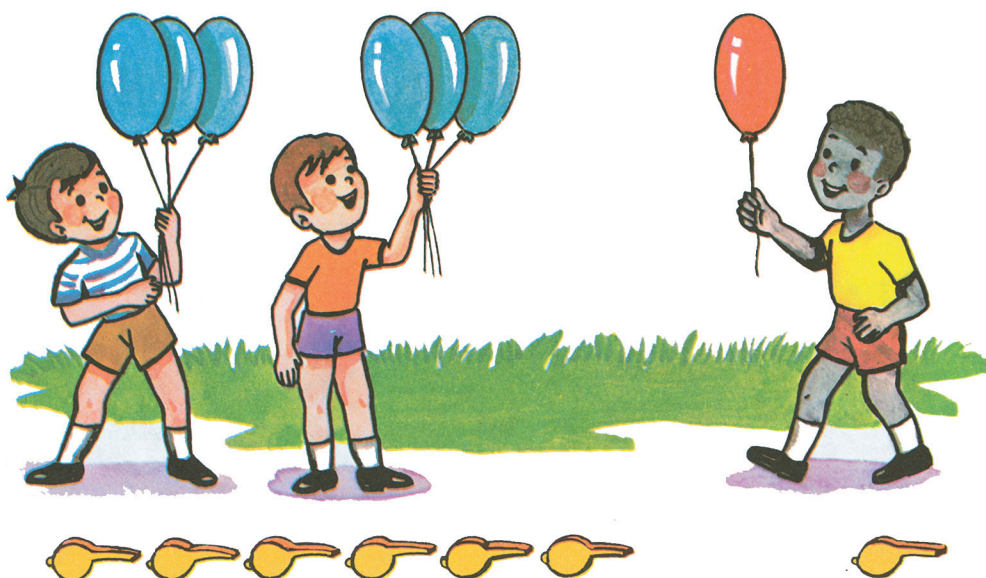


$$4 + 2 = 6$$



$$6 = 4 + 2$$





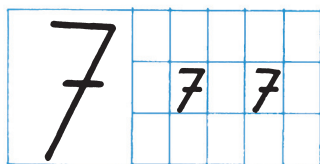
7



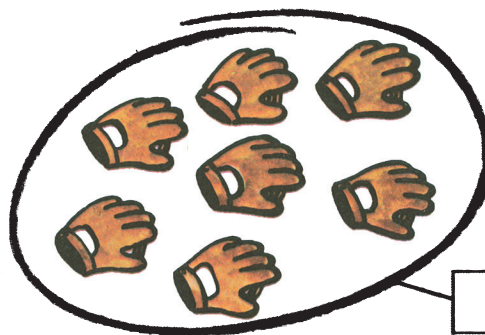
$$6 + 1 = 7$$

$6 + 1 = 7$  El sucesor de 6 es 7.

1, 2, 3, 4, 5, 6, 7, ...

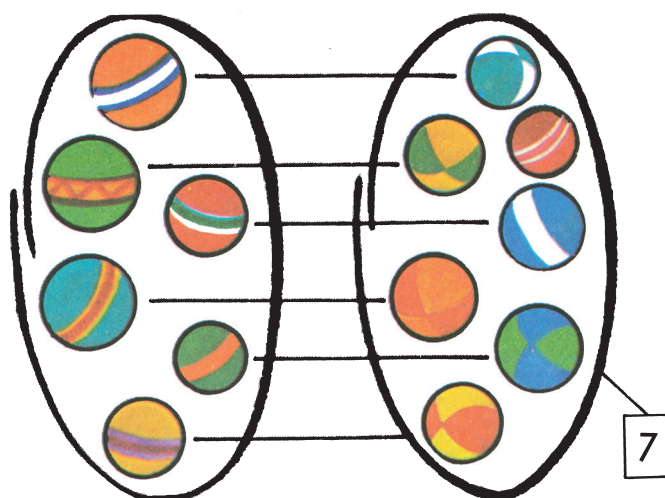


①



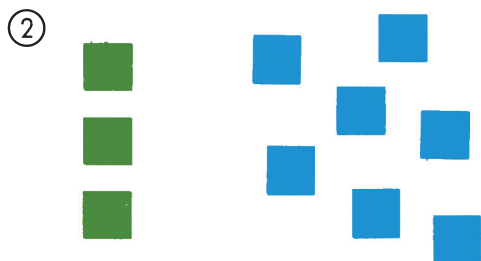
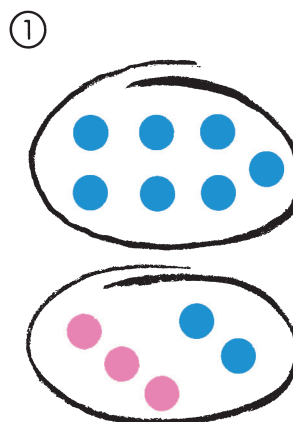
②





$$6 < 7$$

$$7 > 6$$

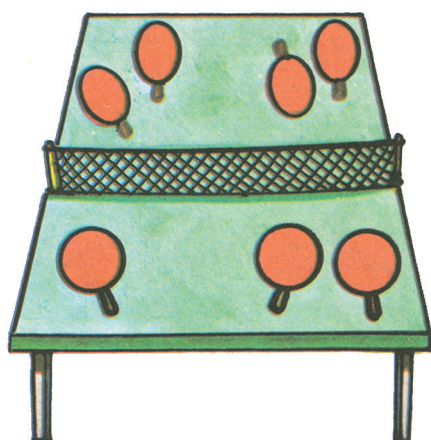


③

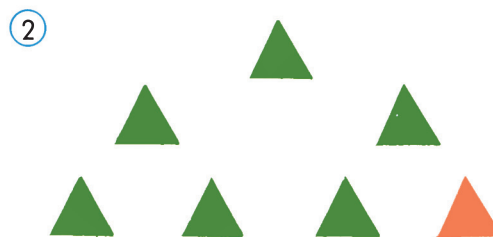
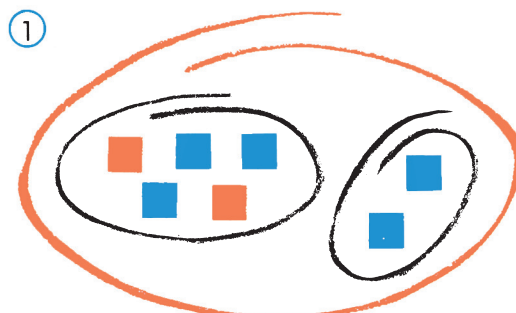
3	<	7
6		4
7		7
7		5
2		4

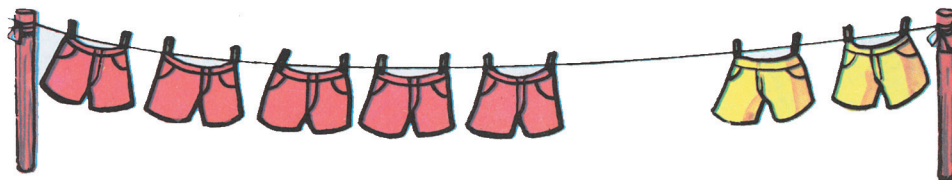
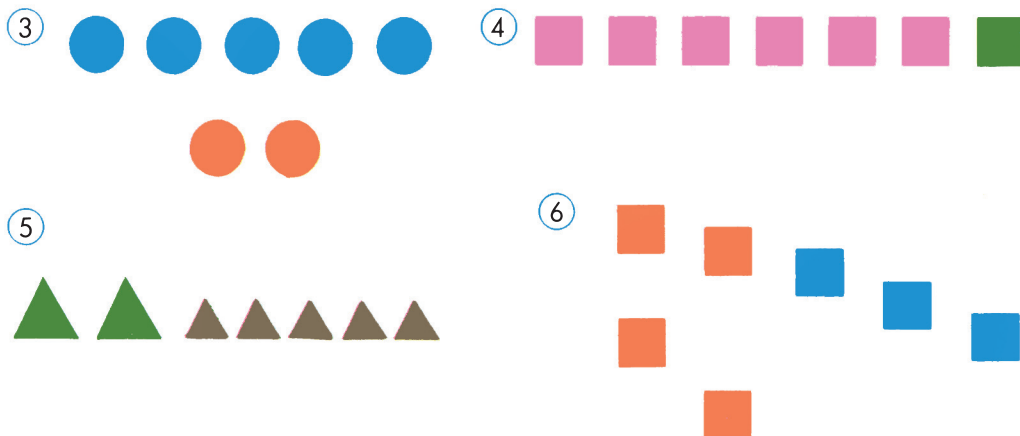
④

5	2
7	6
4	7
1	6
5	5

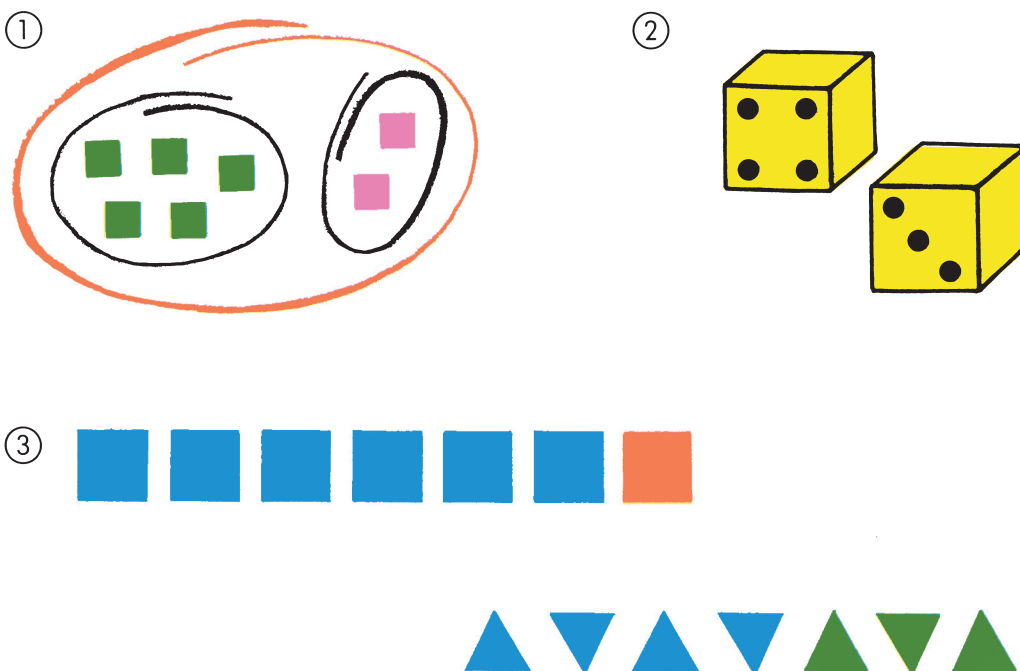


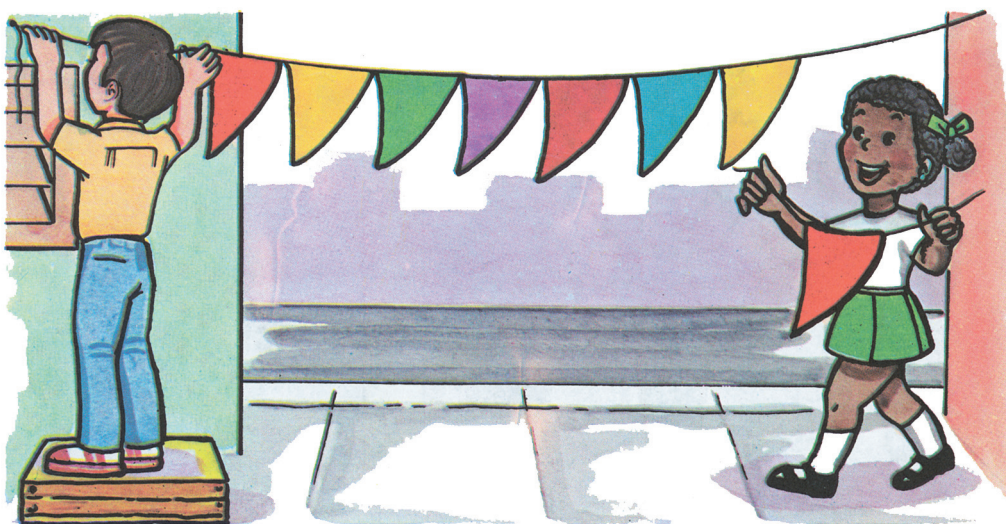
$$4 + 3 = 7$$





$$7 = 5 + 2$$





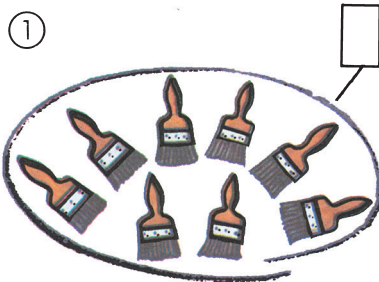
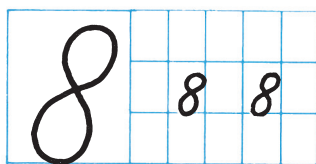
8



$$7 + 1 = 8$$

$7 + 1 = 8$  El sucesor de 7 es 8.

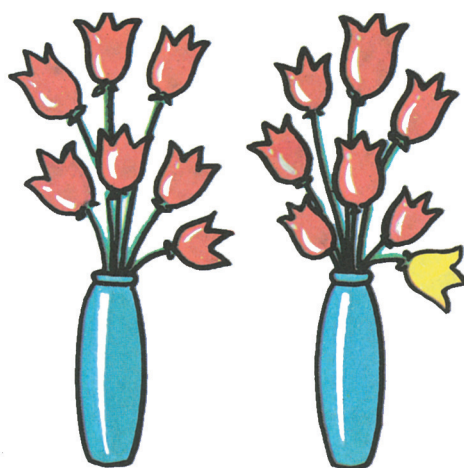
1, 2, 3, 4, 5, 6, 7, 8, ...



2

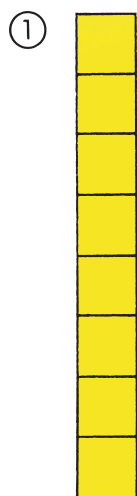






$$7 < 8$$

$$8 > 7$$

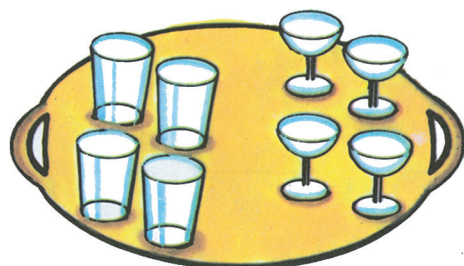


②

3	8
7	6
8	5
4	8

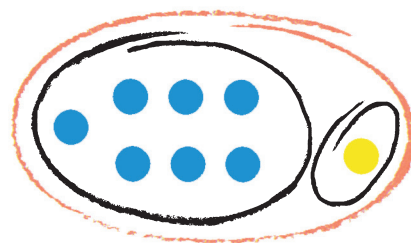
③

5	6
8	8
2	8
5	3



$$4 + 4 = 8$$

①



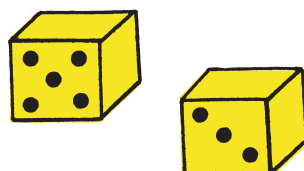
②

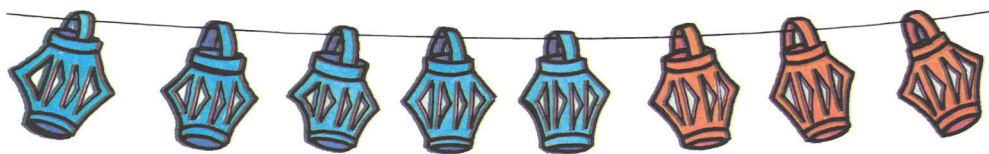


③



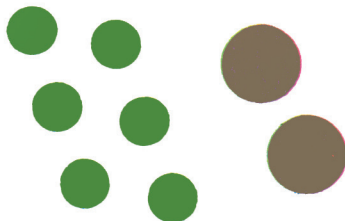
④



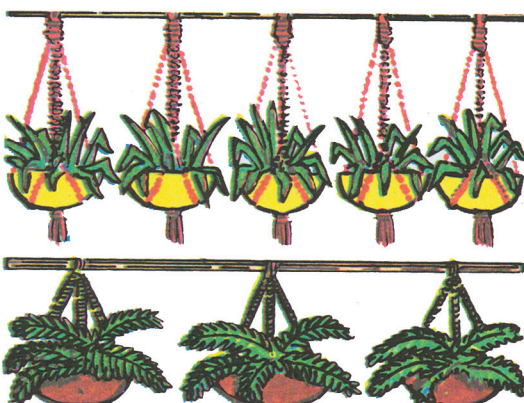
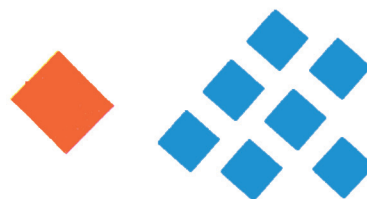


$$5 + 3 = 8$$

①

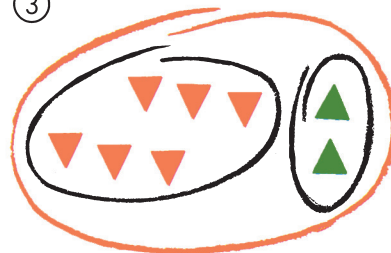


②

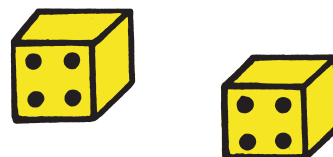


$$8 = 5 + 3$$

③



④



⑤





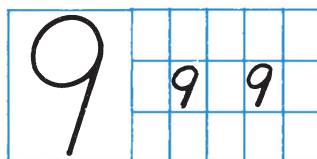
9



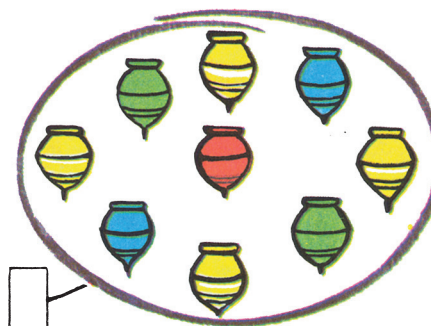
$$8 + 1 = 9$$

$8 + 1 = 9$  El sucesor de 8 es 9.

1, 2, 3, 4, 5, 6, 7, 8, 9, ...



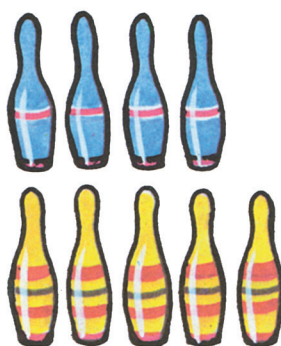
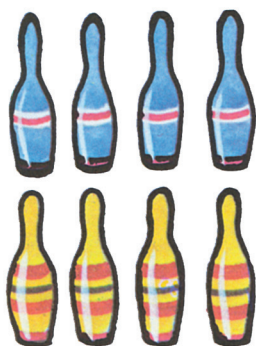
①



②

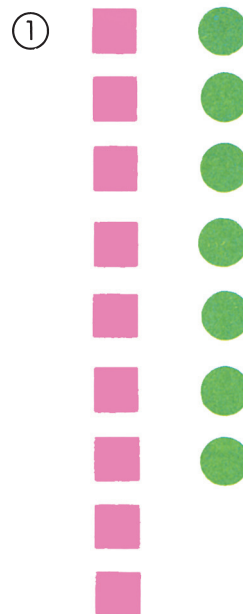






$$8 < 9$$

$$9 > 8$$



② 4 9

9 7

6 9

9 9

③ 5 9

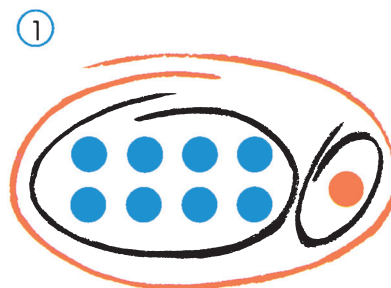
7 4

3 8

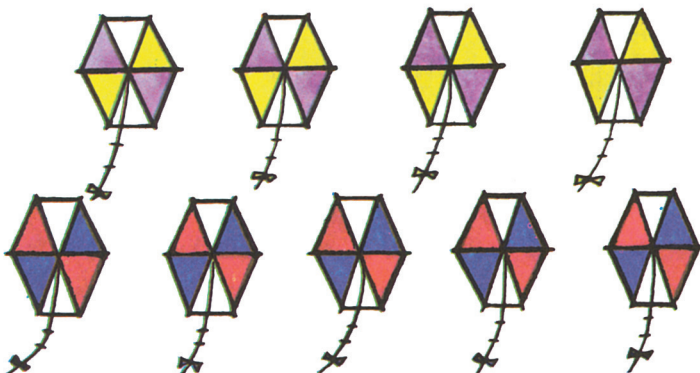
9 1



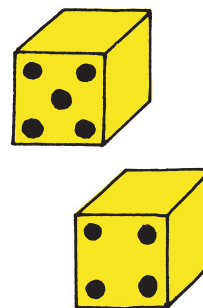
$$6 + 3 = 9$$

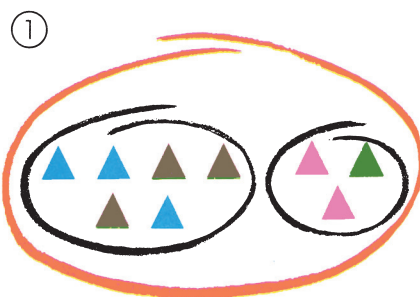
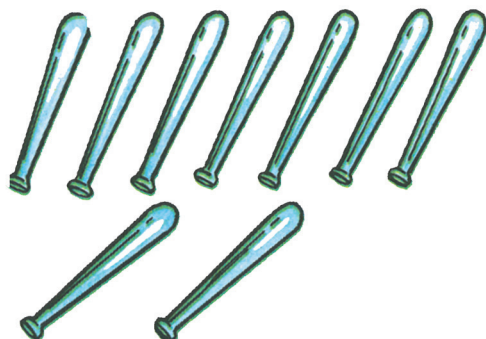
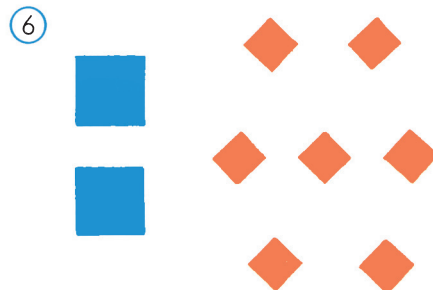
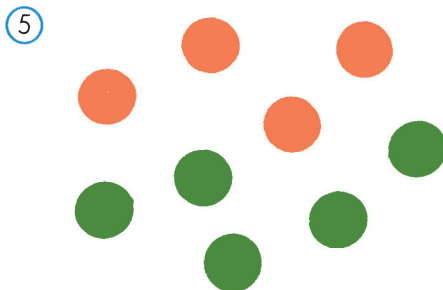


②

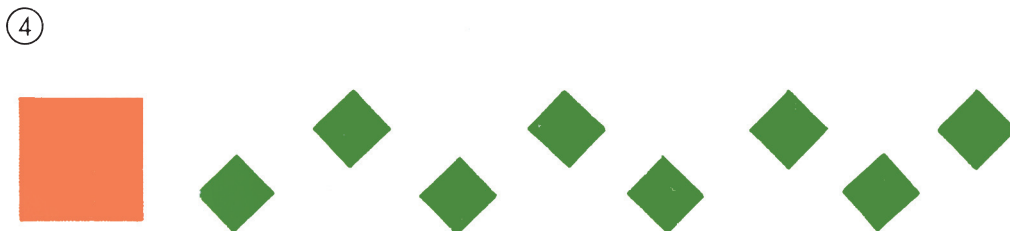
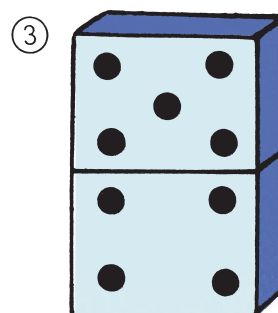
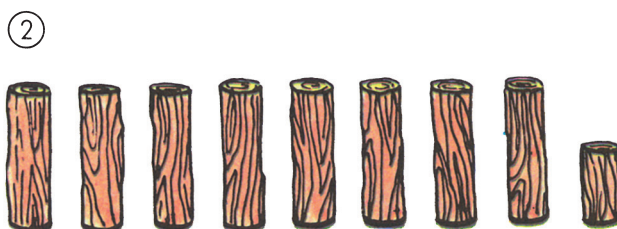


③





$$9 = 7 + 2$$





# 10

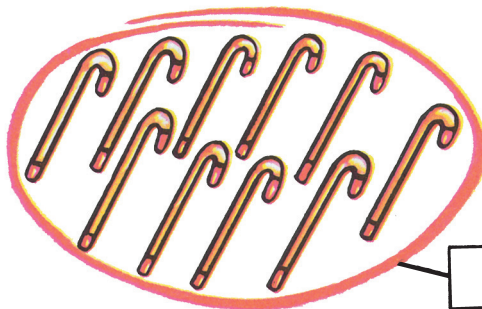
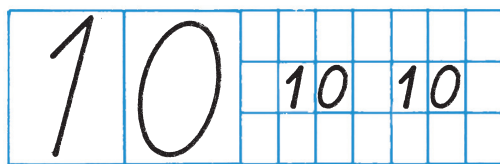


$$9 + 1 = 10$$

$9 + 1 = 10$  El sucesor de 9 es 10.

1, 2, 3, 4, 5, 6, 7, 8, 9, 10

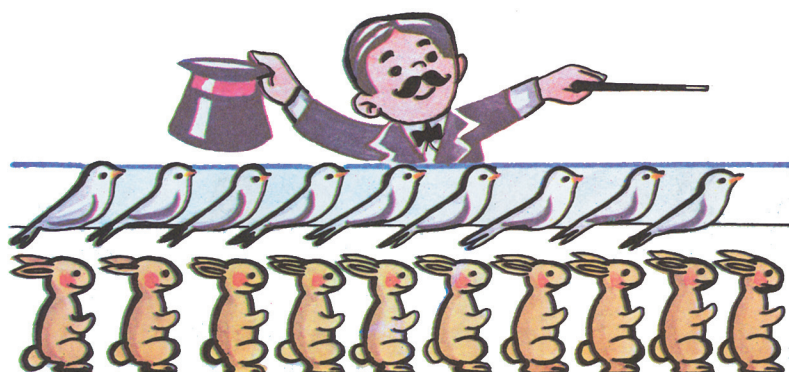
①



②







$$9 < 10$$

$$10 > 9$$

①



②

10	>	7
8	10	
6	10	
10	10	

③

$$4 \quad 8$$

$$7 \quad 10$$

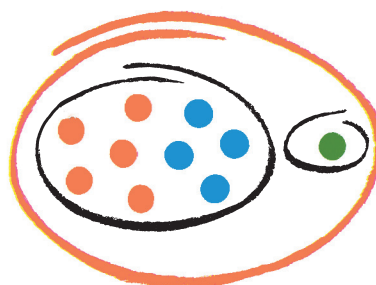
$$10 \quad 5$$

$$7 \quad 9$$



$$5 + 5 = 10$$

④



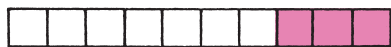
⑤





$$6 + 4 = 10$$

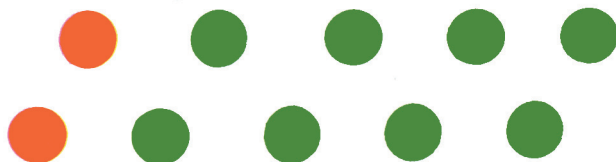
①



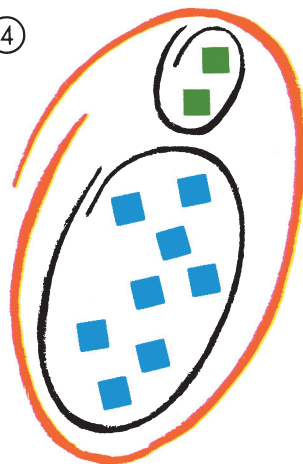
②



③



④

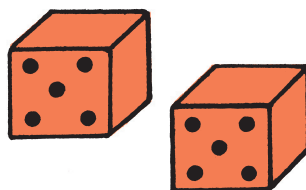


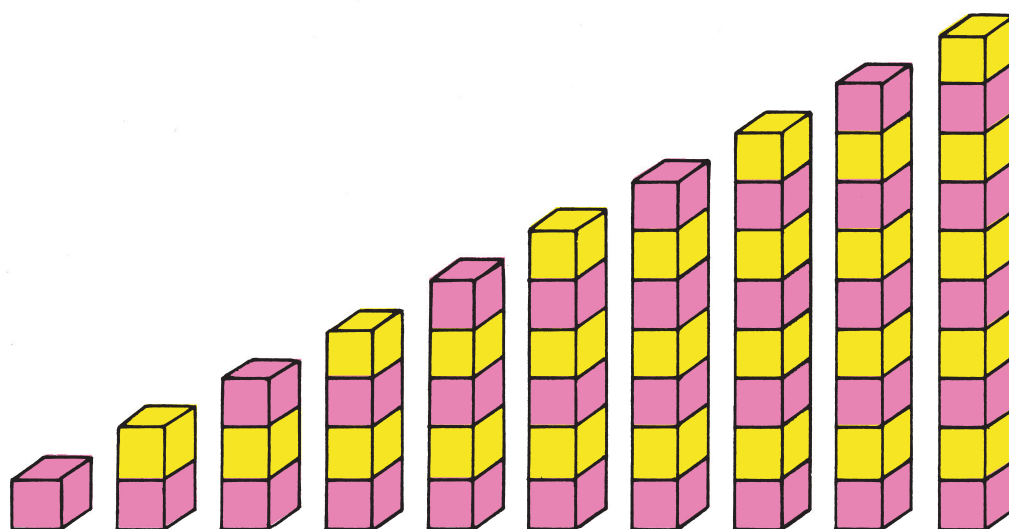
$$10 = 4 + 6$$

⑤



⑥





1 < 2 2 < 3 3 < 4 4 < 5 5 < 6 6 < 7 7 < 8 8 < 9 9 < 10

Este es el orden de los números desde 1 hasta 10 .

1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , ...



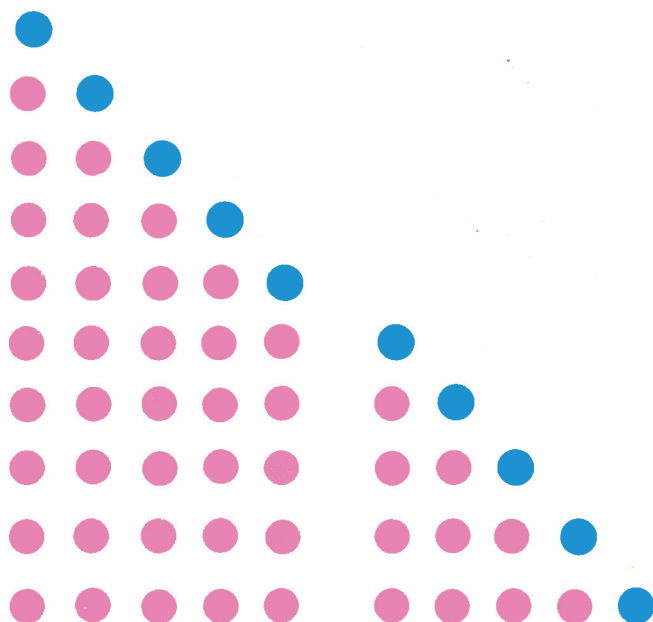
2 < 5

① 2 8  
4 3  
6 2  
5 2

② 9 5  
1 4  
3 3  
10 4

③ 4 2  
1 3  
4 8  
10 2

④ 1 7  
4 4  
2 9  
8 9



$$\begin{aligned}
 &1 \\
 &1 + 1 = 2 \\
 &2 + 1 = 3 \\
 &3 + 1 \\
 &4 + 1 \\
 &5 + 1 \\
 &6 + 1 \\
 &7 + 1 \\
 &8 + 1 \\
 &9 + 1
 \end{aligned}$$



El antecesor de 7  
es 6

El sucesor de 6  
es 7

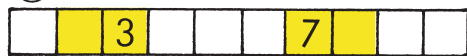
①



③



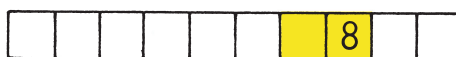
⑤



⑦



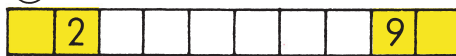
②



④



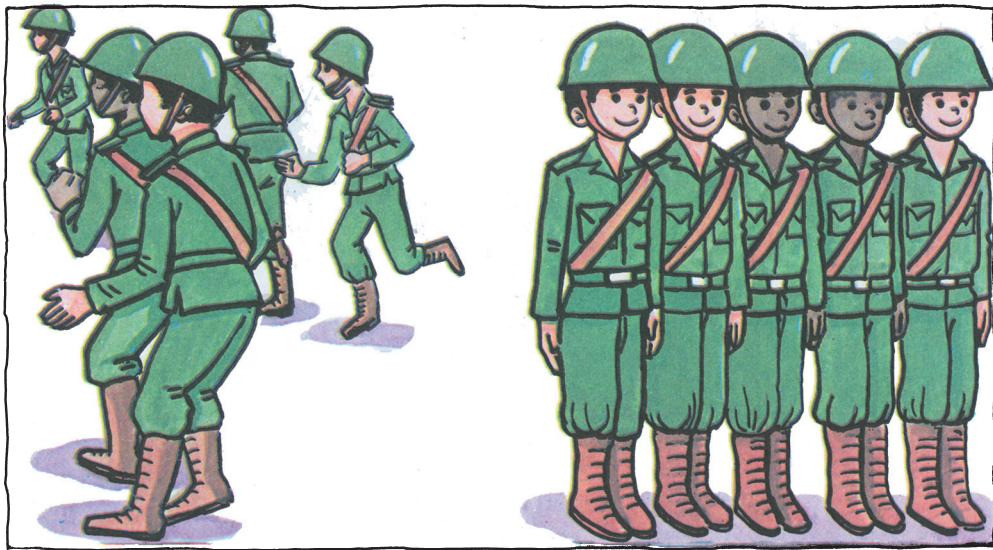
⑥



⑧







1.



2.



3.



4.



5.

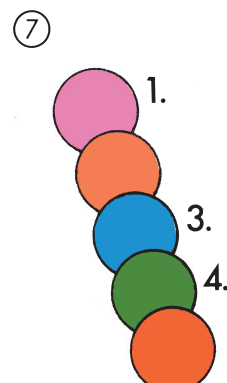
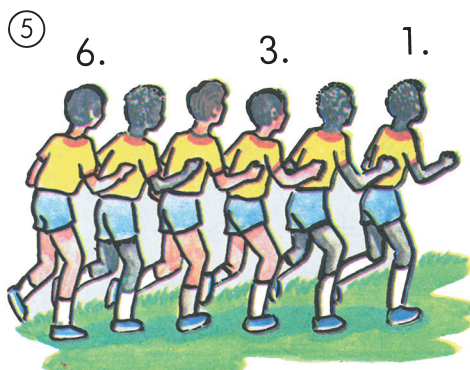
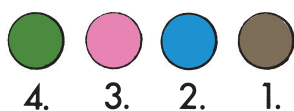
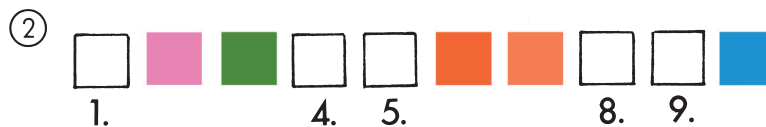


La primera bola es roja. La tercera bola es azul.

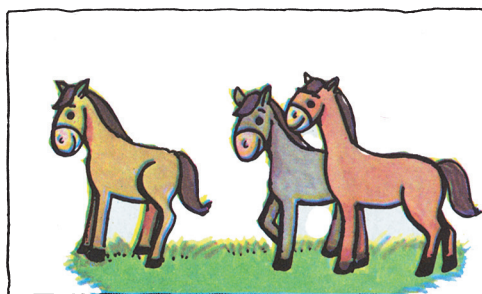
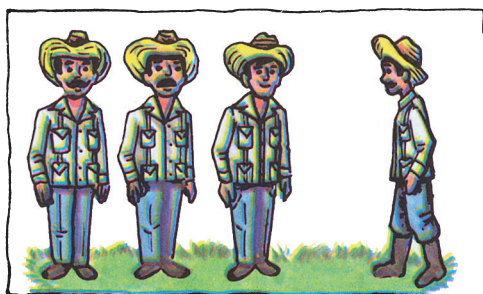
①



4.



## Adición y sustracción hasta 10



3

1

1

2

4

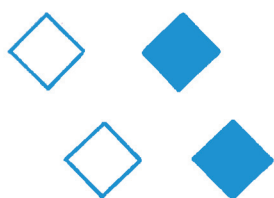
3

$$3 + 1 = 4$$

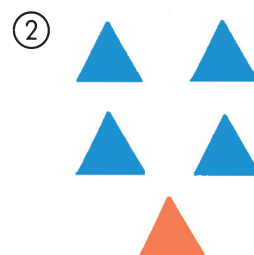
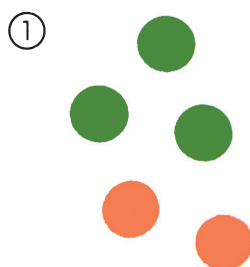
$$1 + 2 = 3$$

$3 + 1 = 4$  es una igualdad.

Sumando		Sumando				Suma
3	+	1	=			4
						Suma



$$2 + 2 = 4$$



$$1 + 4 = 5$$



$$1 + 4 = 5$$

Calcula

$$2 + 3$$



$$5$$

$$2 + 3 = 5$$

Memoriza

$$2 + 3 = 5$$

⑤  $1 + 1$

$2 + 1$

$3 + 1$

⑥  $2 + 2$

$1 + 4$

$2 + 3$

⑦  $1 + 3$

$1 + 2$

$4 + 1$

⑧  $1 + 1$

$1 + 3$

$3 + 2$



## Memoriza

$1 + 1 = 2$	$1 + 2 = 3$	$1 + 3 = 4$	$1 + 4 = 5$
	$2 + 1 = 3$	$2 + 2 = 4$	$2 + 3 = 5$
		$3 + 1 = 4$	$3 + 2 = 5$
			$4 + 1 = 5$

①  $1 + 1$

$2 + 1$

$3 + 1$

$4 + 1$

②  $1 + 2$

$2 + 2$

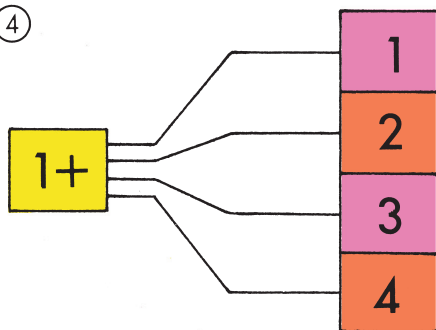
$3 + 2$

③  $1 + 3$

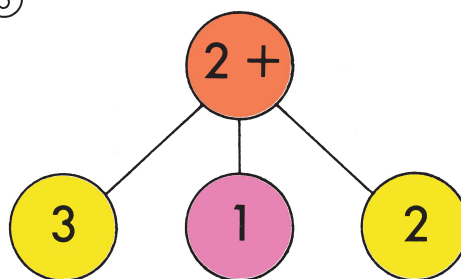
$2 + 3$

$1 + 4$

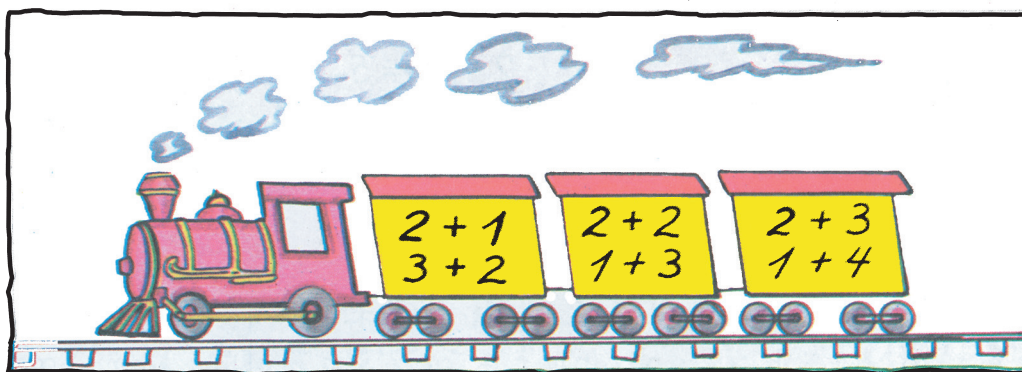
④

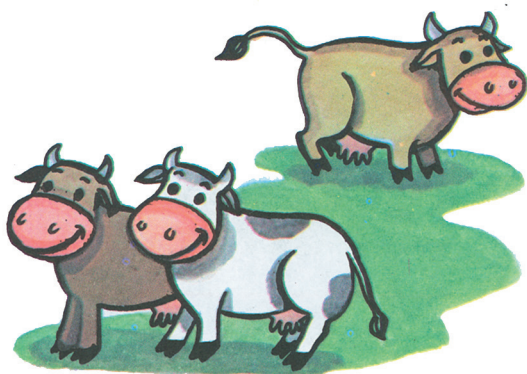


⑤

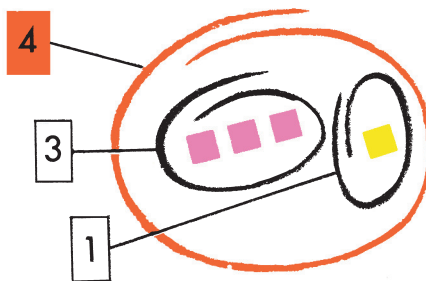


⑥





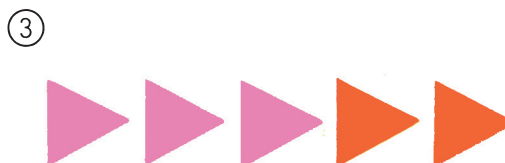
$$3 = 2 + 1$$



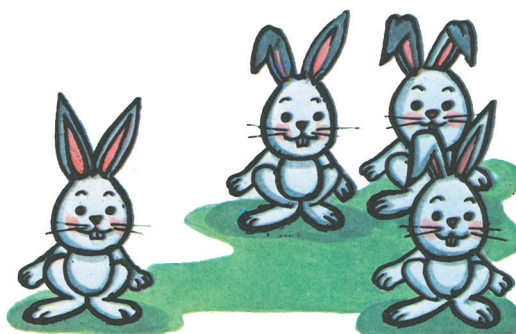
$$4 = 3 + 1$$

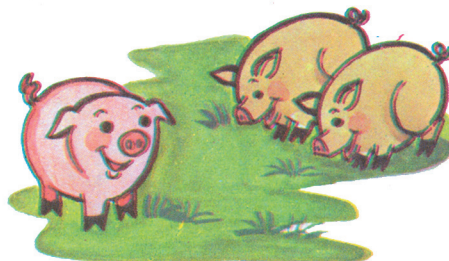
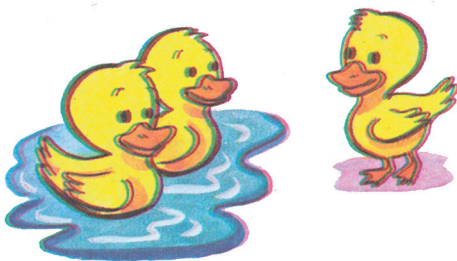


$$3 = 1 + 2$$

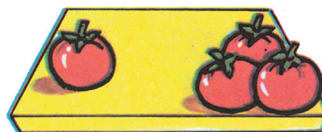


$$1 + 3 = 4 \quad 4 = 1 + 3$$

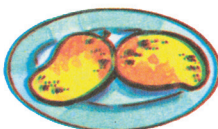




2	+	1	=	3
1	+	2	=	3



3	+	1	=	4
1	+	3	=	4



3	+	2	=	5
2	+	3	=	5

Los sumandos pueden intercambiarse. La suma es igual.

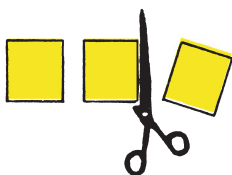
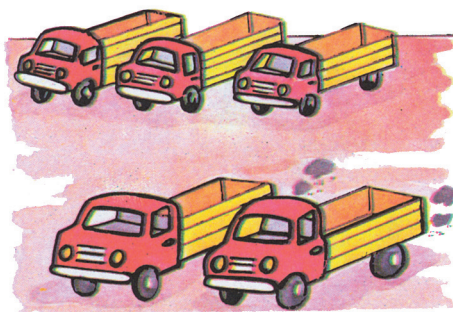
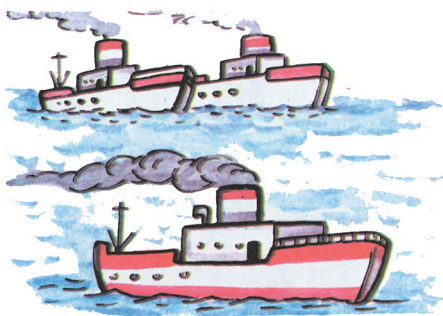
$$2 + 1 = 1 + 2 \quad 3 + 1 = 1 + 3$$

①  $2 + 1$   
 $1 + 2$

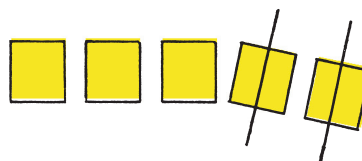
②  $4 + 1$   
 $1 + 4$

③  $3 + 1$   
 $1 + 3$

④  $2 + 3$   
 $3 + 2$



$$3 - 1 = 2$$



$$5 - 2 = 3$$

$$3 - 1 = 2 \quad 5 - 2 = 3$$

Estas son igualdades.

— Este es el signo “menos”.

$$3 - 1$$

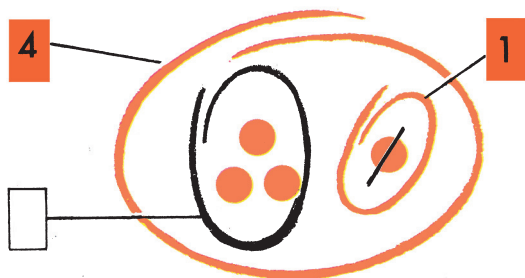
Diferencia

=

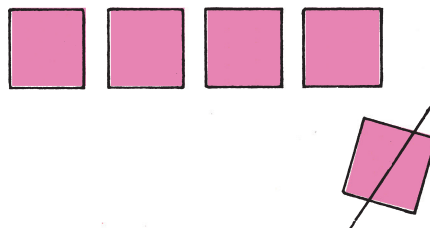
$$2$$

Diferencia

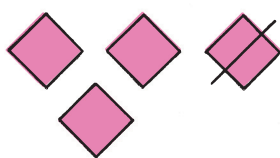
①



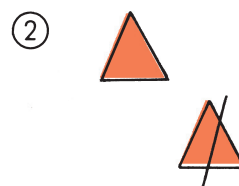
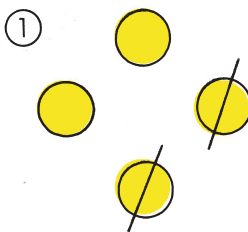
②



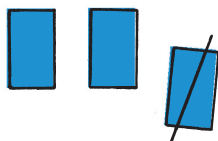




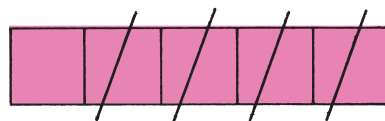
$$4 - 1 = 3$$



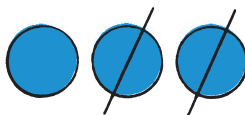
③



④



$$3 - 2 = 1$$



$$3 - 2 = 1$$

Calcula	$4 - 1$
<p style="text-align: center;">3</p> <p style="text-align: center;"><math>4 - 1 = 3</math></p>	
Memoriza	$4 - 1 = 3$

①  $3 - 2$

$4 - 1$

$5 - 2$

②  $2 - 1$

$4 - 2$

$5 - 3$

③  $5 - 1$

$4 - 3$

$3 - 1$

④  $5 - 4$

$4 - 1$

$3 - 2$

## Memoriza

$2 - 1 = 1$	$3 - 1 = 2$	$4 - 1 = 3$	$5 - 1 = 4$
	$3 - 2 = 1$	$4 - 2 = 2$	$5 - 2 = 3$
		$4 - 3 = 1$	$5 - 3 = 2$
			$5 - 4 = 1$

①  $2 - 1$

$3 - 1$

$4 - 1$

$5 - 1$

②

$3 - 2$

$4 - 2$

$5 - 2$

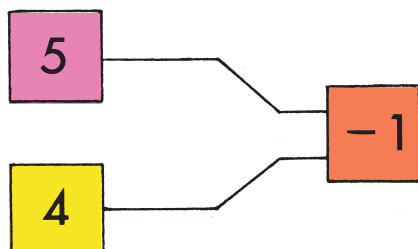
③

$4 - 3$

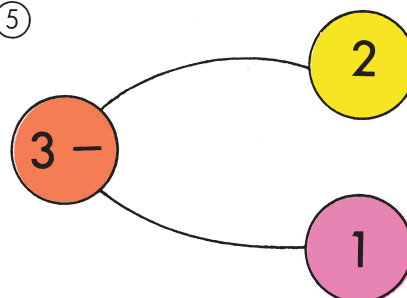
$5 - 3$

$5 - 4$

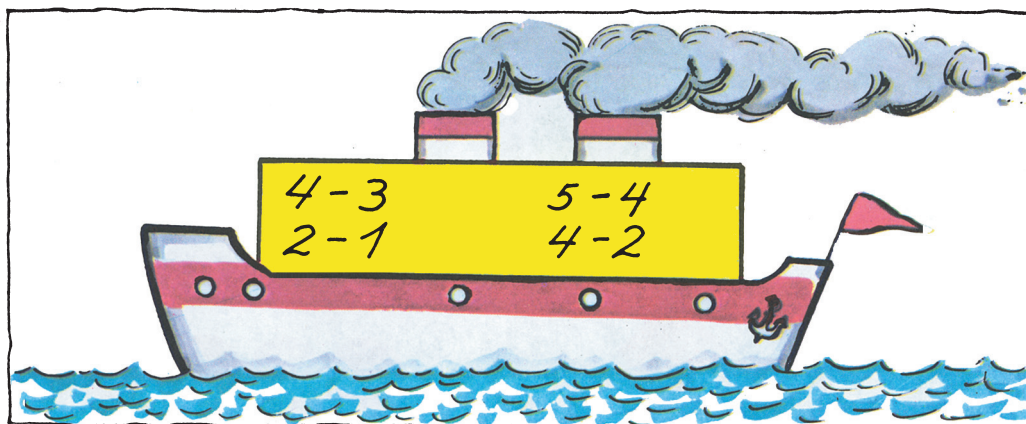
④



⑤



⑥

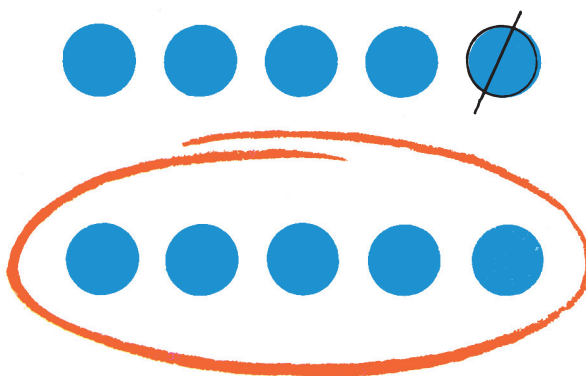




$$3 - 1 = 2$$



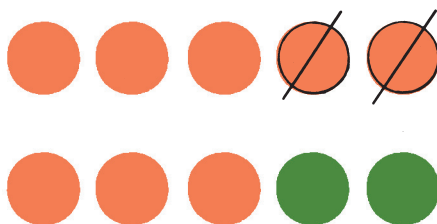
$$2 + 1 = 3$$



$$5 - 1 = 4$$

$$4 + 1 = 5$$

①



$$4 - 2 = 2$$

$$2 + 2 = 4$$

②



③



$$4 - 1 = 3$$

$$3 + 1 = 4$$

$$\textcircled{1} \quad 2 - 1$$

$$1 + 1$$

$$3 - 1$$

$$2 + 1$$

$$4 - 3$$

$$3 + 1$$

$$5 - 4$$

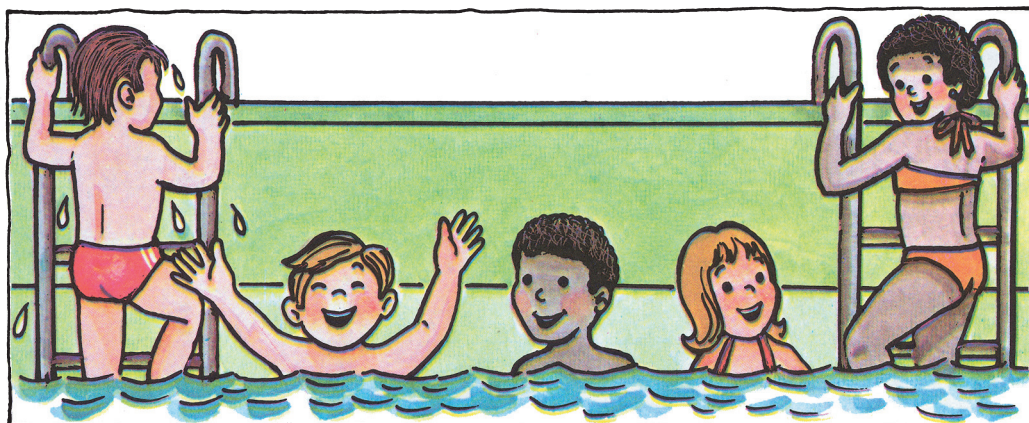
$$4 + 1$$



$$4 - 1 = 3$$

porque

$$3 + 1 = 4$$



$$\begin{array}{|c|c|c|} \hline 5 & - & 2 = 3 \\ \hline 3 & + & 2 = 5 \\ \hline \end{array}$$

$$\textcircled{2} \quad 2 - 1$$

$$5 - 4$$

$$3 - 2$$

$$\textcircled{3} \quad 4 - 3$$

$$5 - 4$$

$$5 - 3$$

$$\textcircled{4} \quad 5 - 3$$

$$5 - 1$$

$$4 - 1$$

$$\begin{array}{|c|c|c|} \hline 3 < 10 \\ \hline 5 = 5 \\ \hline 8 > 6 \\ \hline \end{array}$$

$$\textcircled{5} \quad 10 \quad 5$$

$$10 \quad 6$$

$$10 \quad 2$$

$$\textcircled{6} \quad 3 \quad 10$$

$$4 \quad 10$$

$$7 \quad 10$$

$$\textcircled{7} \quad 6 \quad 2$$

$$4 \quad 4$$

$$7 \quad 9$$

$$\begin{array}{|c|c|c|} \hline 2 + 3 = 5 \\ \hline 3 + 2 = 5 \\ \hline \end{array}$$

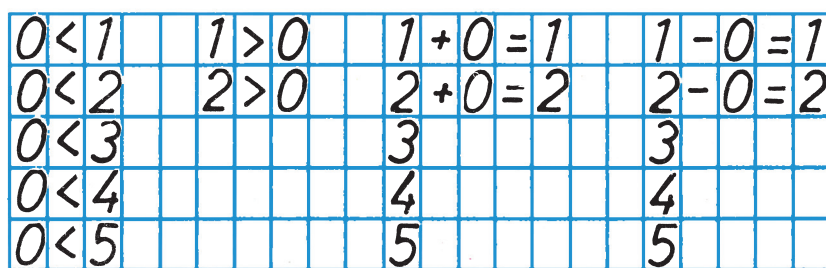
$$\textcircled{8} \quad 1 + 2$$

$$1 + 4$$

$$3 + 1$$



$1 - 1 = 0$



$0 < 2$

① 0 5 | 3 0 | 1 0 | 0 4

$$\begin{array}{r} 5 - 0 \\ 3 - 3 \\ 0 - 0 \end{array}$$

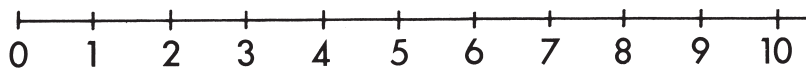




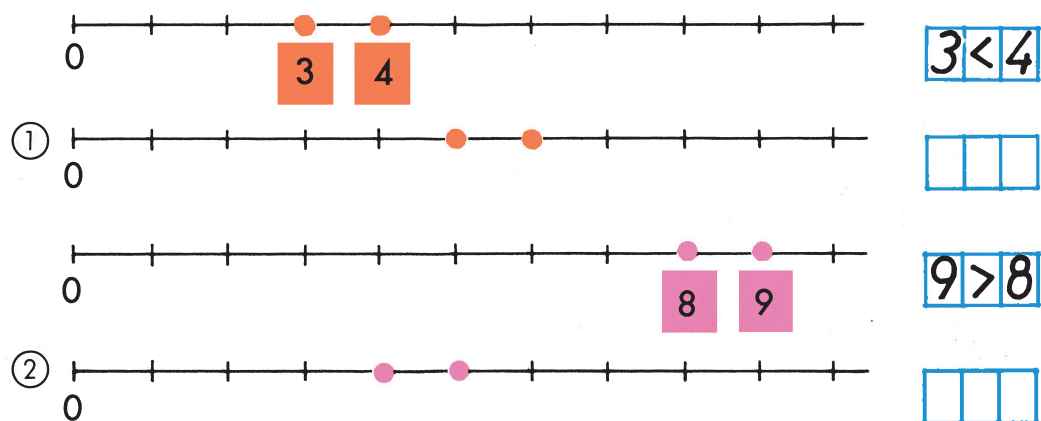
## Memoriza

$0 + 1 = 1$	$0 + 2 = 2$	$0 + 3 = 3$	$0 + 4 = 4$	$0 + 5 = 5$
$1 + 0 = 1$	$1 + 1 = 2$	$1 + 2 = 3$	$1 + 3 = 4$	$1 + 4 = 5$
	$2 + 0 = 2$	$2 + 1 = 3$	$2 + 2 = 4$	$2 + 3 = 5$
		$3 + 0 = 3$	$3 + 1 = 4$	$3 + 2 = 5$
			$4 + 0 = 4$	$4 + 1 = 5$
				$5 + 0 = 5$
$1 - 0 = 1$	$2 - 0 = 2$	$3 - 0 = 3$	$4 - 0 = 4$	$5 - 0 = 5$
$1 - 1 = 0$	$2 - 1 = 1$	$3 - 1 = 2$	$4 - 1 = 3$	$5 - 1 = 4$
	$2 - 2 = 0$	$3 - 2 = 1$	$4 - 2 = 2$	$5 - 2 = 3$
		$3 - 3 = 0$	$4 - 3 = 1$	$5 - 3 = 2$
			$4 - 4 = 0$	$5 - 4 = 1$
				$5 - 5 = 0$

①  $2 + 3$       $5 - 4$       $2 + 2$   
 $0 + 4$       $4 - 0$       $5 - 5$



Este es un rayo numérico.



③

2	3	7	8	4	3
1	2	9	10	1	0

④  $0 < 1, 1 < 2, \dots, 9 < 10$

⑤  $10 > 9, 9 > 8, \dots, 1 > 0$

Ordena.

⑥ Comienza por el menor : 7, 0, 9, 2, 3

⑦ Comienza por el mayor : 5, 8, 6, 1, 10

$5 - 3$
$3 + 2 = 5$
$\circ$
$2 + 3 = 5$
$5 - 3 = 2$

①  $2 - 1$

$3 - 2$

$4 - 3$

$5 - 2$

$4 - 1$

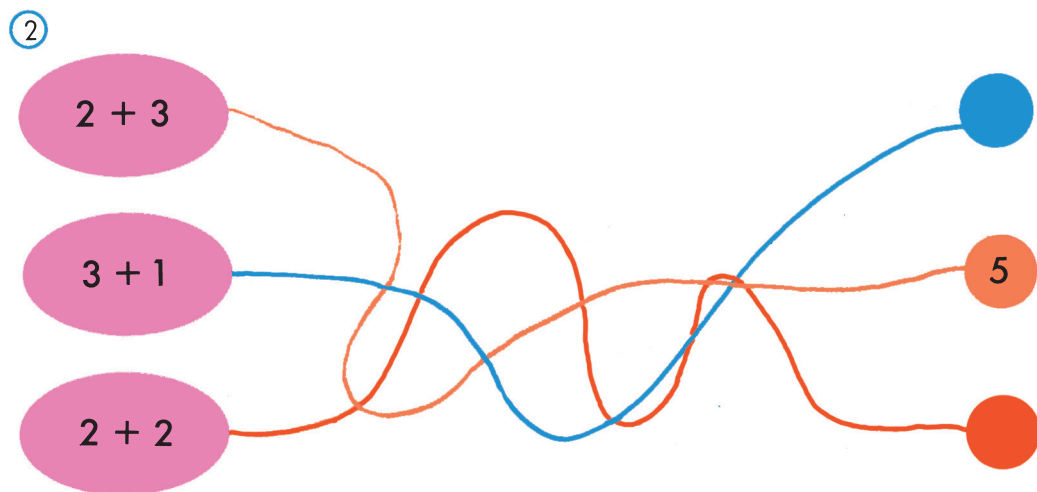
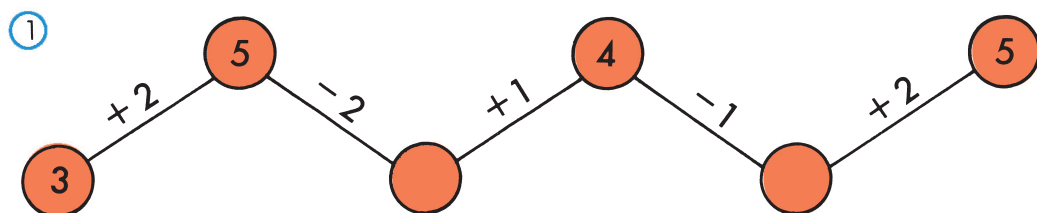
②  $5 - 4$

$3 - 1$

$4 - 2$

$5 - 1$

$3 - 0$



③  $2 + 0$

$1 + 1$

$5 - 2$

$4 - 3$

$2 + 2$

$3 - 2$

$0 + 5$

$4 - 4$





$$4 + 2 = 6$$

$$2 + 4 = 6$$



$$2 + 4 = 6$$

$$4 + 2 = 6$$

$$3 + 3$$



$$5 + 1$$

$$1 + 5$$

$$6 + 0$$

$$0 + 6$$

6	4 + 2	2 + 4	5 + 1	1 + 5
	3 + 3		6 + 0	0 + 6

①  $5 + 1$

$$0 + 4$$

$$1 + 4$$

$$3 + 2$$

②  $2 + 3$

$$1 + 5$$

$$3 + 1$$

$$3 + 0$$

③  $4 + 1$

$$0 + 3$$

$$2 + 2$$

$$6 + 0$$

④  $0 + 6$

$$1 + 1$$

$$2 + 1$$

$$2 + 4$$

⑤  $2 + 1$

$$3 + 1$$

$$4 + 1$$

$$5 + 1$$

⑥  $1 + 2$

$$2 + 2$$

$$3 + 2$$

$$4 + 2$$

⑦  $3 + 1$

$$1 + 3$$

$$2 + 1$$

$$1 + 2$$

⑧  $5 + 1$

$$1 + 5$$

$$4 + 2$$

$$2 + 4$$



$$6 - 2 = 4$$

$$6 - 2$$



$$6 - 2 = 4$$

$$6 - 4 = 2$$

$$6 - 3$$



$$6 - 1$$

$$6 - 5$$

$$6 - 6$$

$$6 - 0$$

$$6 - 2$$

$$6 - 4$$

$$6 - 1$$

$$6 - 5$$

$$6 - 3$$

$$6 - 0$$

$$6 - 6$$

$$\textcircled{2} \quad 6 - 3$$

$$6 - 1$$

$$6 - 5$$

$$6 - 4$$

$$6 - 6$$

$$\textcircled{3} \quad 4 - 3$$

$$2 - 1$$

$$6 - 0$$

$$5 - 3$$

$$6 - 2$$

$$\textcircled{1} \quad 6 - 0$$

$$6 - 1$$

$$6 - 2$$

$$6 - 3$$

$$6 - 4$$

$$6 - 5$$

$$6 - 6$$

$\textcircled{4}$



$$6 - 2$$



6	-	2	=	4
4	+	2	=	6

$$6 - 2 = 4$$

$$4 + 2 = 6$$

$$\textcircled{1} \quad 6 - 3$$

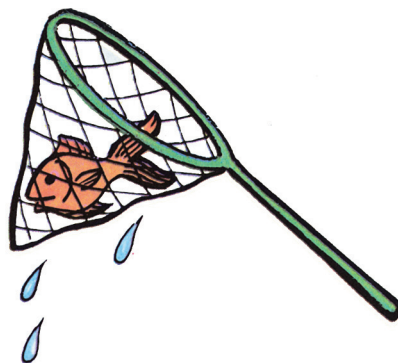
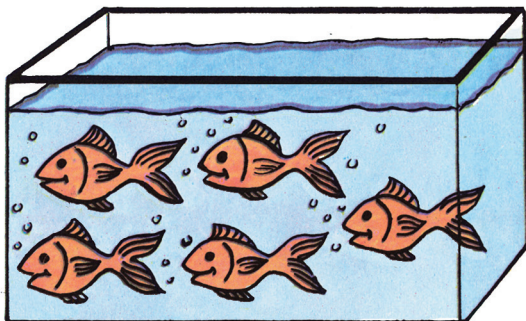
$$6 - 5$$

$$6 - 4$$

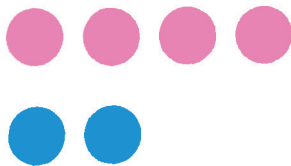
$$\textcircled{2} \quad 5 - 4$$

$$3 - 1$$

$$4 - 2$$

$$\textcircled{3}$$


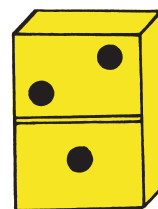
$$4 + 2$$



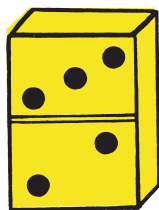
$$4 + 2 = 6$$

4	+	2	=	6
2	+	4	=	6
6	-	2	=	4
6	-	4	=	2

$$\textcircled{1} \quad 2 + 1$$



$$\textcircled{2} \quad 3 + 2$$



$$\textcircled{3} \quad 5 + 1$$

$$2 + 2$$

$$3 + 1$$

$$\textcircled{4} \quad 6 + 0$$

$$4 + 1$$

$$3 + 3$$

$$4 + 3$$



$$4 + 3 = 7$$

$$3 + 4 = 7$$

$$5 + 2$$



$$6 + 1$$

7	$5 + 2$	$2 + 5$	$6 + 1$	$1 + 6$
	$4 + 3$	$3 + 4$	$7 + 0$	$0 + 7$

①  $5 + 2$

$$4 + 0$$

$$1 + 3$$

②  $0 + 7$

$$4 + 1$$

$$1 + 6$$

③  $6 + 0$

$$3 + 4$$

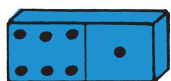
$$2 + 4$$

④  $7 + 0$

$$5 + 2$$

$$3 + 3$$

①



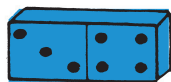
$$7 = 6 + 1$$



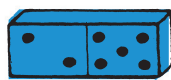
$$7 = 5 + 2$$



7



7



7



7

②



$$6 = 5 + 1$$







$$7 - 3 = 4$$

$$7 - 4 = 3$$



$7 - 2$	$7 - 5$	$7 - 1$	$7 - 6$
$7 - 3$	$7 - 4$	$7 - 0$	$7 - 7$

$$\textcircled{1} 7 - 0$$

$$7 - 1$$

$$7 - 2$$

$$7 - 3$$

$$7 - 4$$

$$7 - 5$$

$$7 - 6$$

$$7 - 7$$

$$\textcircled{2} 7 - 5 \quad \textcircled{3} 4 - 3$$

$$7 - 2 \quad 7 - 3$$

$$2 - 2 \quad 1 - 0$$

$$7 - 7 \quad 7 - 0$$

$$\textcircled{4} 7 - 1$$

$$3 - 0$$

$$5 - 5$$

$$7 - 6$$

$$7 - 2$$



$$7 - 2 = 5$$

$$5 + 2 = 7$$

7	-	2	=	5
5	+	2	=	7

$$\textcircled{5} 7 - 5$$

$$7 - 6$$

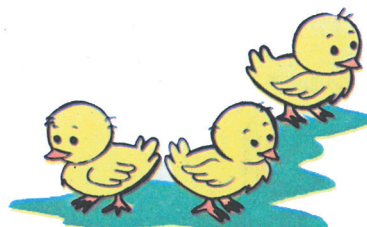
$$7 - 4$$

$$\textcircled{6} 6 - 4$$

$$3 - 2$$

$$4 - 1$$

$\textcircled{7}$



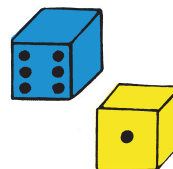
$$4 + 3$$



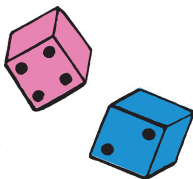
$$4 + 3 = 7$$

4	+	3	=	7
3	+	4	=	7
7	-	3	=	4
7	-	4	=	3

$$\textcircled{1} \quad 6 + 1$$



$$\textcircled{2} \quad 4 + 2$$



$$\textcircled{3} \quad 3 + 3$$

$$\textcircled{4} \quad 2 + 1$$

$$\textcircled{5} \quad 5 + 1$$

$$\textcircled{6} \quad 5 + 2$$

$\textcircled{7}$



$$\textcircled{8} \quad 6 = 6 + 0$$

$$6 = 5 + 1$$

6

6

6

6

6

$$\textcircled{9} \quad 5 = 5 + 0$$

5

5

5

5

5

$$\textcircled{10} \quad 4 = 0 + 4$$

4

4

4

4

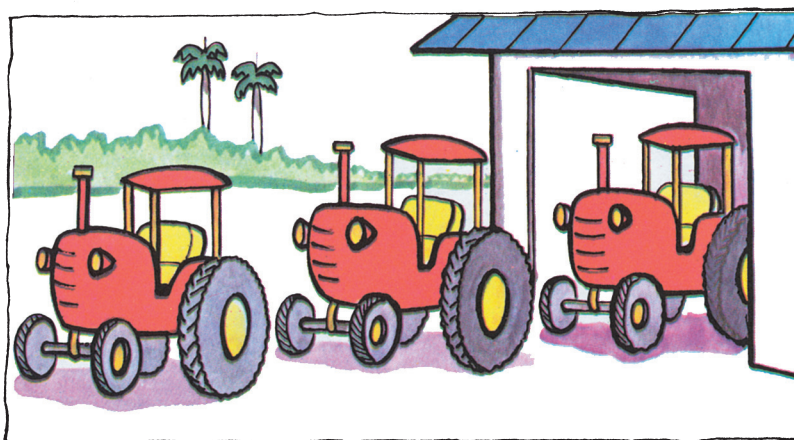
$$3 + 2$$

$$3 + 4$$

$$3 + 1$$

$$3 + 3$$

$$3 + a$$



Si  $a = 2$ , entonces  $3 + a = 5$

Si  $a = 4$ , entonces  $3 + a = 7$

Si  $a = 1$ , entonces  $3 + a = 4$

$2 + a$ ;  $a = 3$ ,  $2 + a = 5$

$a = 4$ ,  $2 + a = 6$

$$2 + a; \quad a = 1, 2$$

2	+	a	=	3
2	+	a	=	4

①  $2 + a$ ;  $a = 4$

$1 + e$ ;  $e = 3$

$3 + i$ ;  $i = 1$

②  $3 + a$ ;  $a = 1$

$5 + e$ ;  $e = 2$

$2 + i$ ;  $i = 4$

③  $3 + a$ ;  $a = 1, 4, 2$

④  $2 + a$ ;  $a = 0, 4, 5$

⑤  $1 + u$ ;  $u = 0, 3, 4$

⑥  $4 + e$ ;  $e = 2, 3, 1$



$$5 - a$$

Si  $a = 2$ , entonces  $5 - a = 3$

Si  $a = 3$ , entonces  $5 - a = 2$

Si  $a = 4$ , entonces  $5 - a = 1$

$6 - a$ ;  $a = 1$ ,  $6 - a = 5$

$a = 3$ ,  $6 - a = 3$

$$4 - a; \quad a = 1, 2, 3$$

4	-	a	=	3
4	-	a	=	2
4	-	a	=	1

①  $5 - a$ ;  $a = 4$

$1 - e$ ;  $e = 1$

$7 - i$ ;  $i = 5$

②  $5 - a$ ;  $a = 3, 1$

$6 - a$ ;  $a = 4, 6$

$3 - a$ ;  $a = 2, 0$

③  $7 - i$ ;  $i = 5, 4, 7$

④  $4 + a$ ;  $a = 1, 3, 2$

⑤  $5 + e$ ;  $e = 1, 2, 3$

⑥  $6 - u$ ;  $u = 4, 2, 5$



$$6 + 2$$



$$5 + 3$$



$$4 + 4$$

$$6 + 2 = 8$$

$$2 + 6 = 8$$

$$8 - 2 = 6$$

$$8 - 6 = 2$$

	$6 + 2$	$2 + 6$	$8 - 2$	$8 - 6$
	$5 + 3$	$3 + 5$	$8 - 3$	$8 - 5$
	$4 + 4$		$8 - 4$	
	$7 + 1$	$1 + 7$	$8 - 1$	$8 - 7$
	$8 + 0$	$0 + 8$	$8 - 0$	$8 - 8$

①  $2 + 5$

$$5 + 3$$

$$8 + 0$$

②  $4 + 3$

$$2 + 6$$

$$7 + 0$$

③  $5 + 2$

$$4 + 4$$

$$0 + 8$$

④  $3 + 4$

$$7 + 1$$

$$3 + 5$$

⑤  $1 + 7$

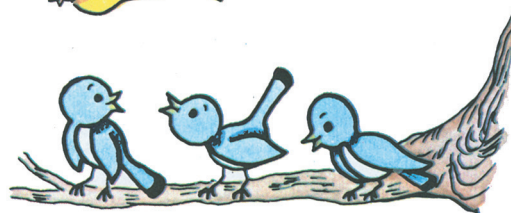
$$0 + 0$$

$$6 + 2$$

⑥  $8 - 8$

$$5 - 5$$

$$8 - 1$$



⑦  $7 - 3$

$$8 - 5$$

$$7 - 0$$

⑧  $8 - 3$

$$8 - 0$$

$$7 - 7$$

⑨  $8 - 4$

$$4 - 4$$

$$8 - 2$$

⑩  $0 - 0$

$$8 - 7$$

$$8 - 6$$

5	+	3	=	8
3	+	5	=	8
8	-	3	=	5
8	-	5	=	3

①  $6 + 1$

$6 + 2$

$4 + 3$

$3 + 2$

②  $3 + 3$

$8 - 5$

$8 + 0$

$6 - 6$

③  $7 - 4$

$4 + 4$

$8 - 3$

$0 + 6$

④  $7 - 7$

$8 - 6$

$0 + 5$

$2 + 6$

⑤  $2 + 2$

$5 + 2$

$1 + 2$

$6 + 2$

⑥  $6 - 2$

$2 - 2$

$5 - 2$

$8 - 2$

⑦  $1 + 1$

$2 + 2$

$3 + 3$

$4 + 4$

⑧  $4 + 1$

$4 + 2$

$4 + 3$

$4 + 0$

⑨  $8 - 1$

$8 - 2$

$8 - 3$

$8 - 4$

①

  $8 = 7 + 1$

  $8 = 6 + 2$

 8

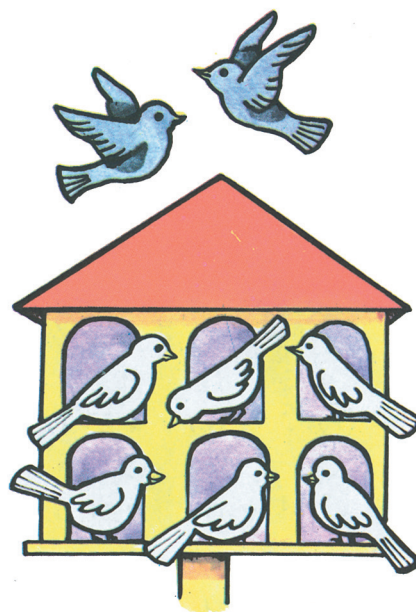
 8

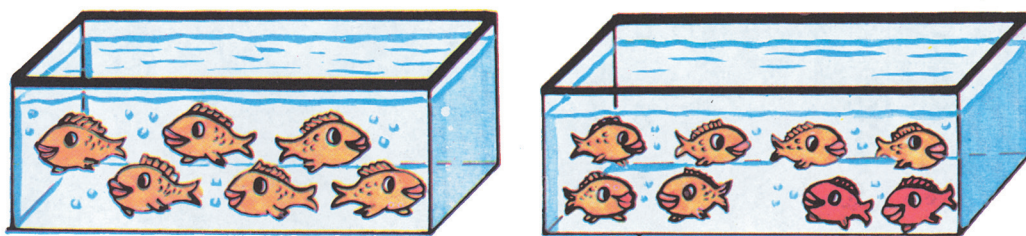
 8

 8

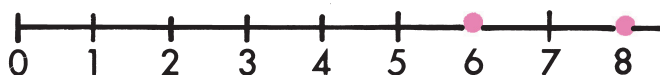
 8

②





$$6 < 8 \text{ porque } 6 + 2 = 8$$



4	<	7	;	4	+	3	=	7
3	<	6	;	3	+	3	=	6

① 5 8  
2 4  
3 7

② 2 5  
1 7  
4 6

③ 3 8  
0 3  
4 8

$$8 > 6 \text{ porque } 6 + 2 = 8$$

7	>	4	;	4	+	3	=	7
6	>	3	;	3	+	3	=	6

④ 8 5  
4 2  
7 3

⑤ 5 0  
7 1  
6 4

⑥ 8 3  
3 1  
2 7

⑦  $5 + a$ ;  $a = 1, 0, 3$

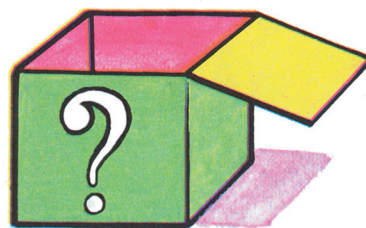
⑧  $8 - a$ ;  $a = 2, 7, 5$

$4 + a$ ;  $a = 3, 4, 2$

$5 - a$ ;  $a = 1, 5, 0$

$6 + a$ ;  $a = 2, 0, 1$

$7 - a$ ;  $a = 6, 3, 4$



$$4 + e$$

Si  $e = 3$ , entonces  $4 + e = 7$

Si  $e = 1$ , entonces  $4 + e = 5$

Si  $e = 4$ , entonces  $4 + e = 8$

$e$	$4 + e$
3	7
1	5
4	8

$$4 - i$$

Si  $i = 3$ , entonces  $4 - i = 1$

Si  $i = 1$ , entonces  $4 - i = 3$

Si  $i = 2$ , entonces  $4 - i = 2$

$i$	$4 - i$
3	1
1	3
2	2

①

$a$	$3 + a$
3	
2	
0	

②

$e$	$2 + e$
3	
4	
1	

③

$i$	$1 + i$
6	
1	
5	

$a$	$6 - a$
5	1
8	—
6	0

④

$a$	$7 - a$
5	
2	
8	

⑤

$a$	$8 - a$
4	
7	
8	



$$6 + 3$$



$$6 + 3 = 9$$

$$3 + 6 = 9$$

$$7 + 2$$



$$5 + 4$$

$$9 - 3 = 6$$

$$9 - 6 = 3$$

9	7 + 2	2 + 7	9 - 2	9 - 7
	6 + 3	3 + 6	9 - 3	9 - 6
	5 + 4	4 + 5	9 - 4	9 - 5
	8 + 1	1 + 8	9 - 1	9 - 8
	9 + 0	0 + 9	9 - 0	9 - 9

①  $6 + 2$

$$4 + 5$$

$$1 + 2$$

$$0 + 9$$

②  $2 + 5$

$$5 + 4$$

$$1 + 8$$

$$3 + 4$$

③  $9 - 4$

$$8 - 8$$

$$5 - 4$$

$$9 - 1$$

④  $8 - 4$

$$9 - 0$$

$$4 - 3$$

$$9 - 8$$

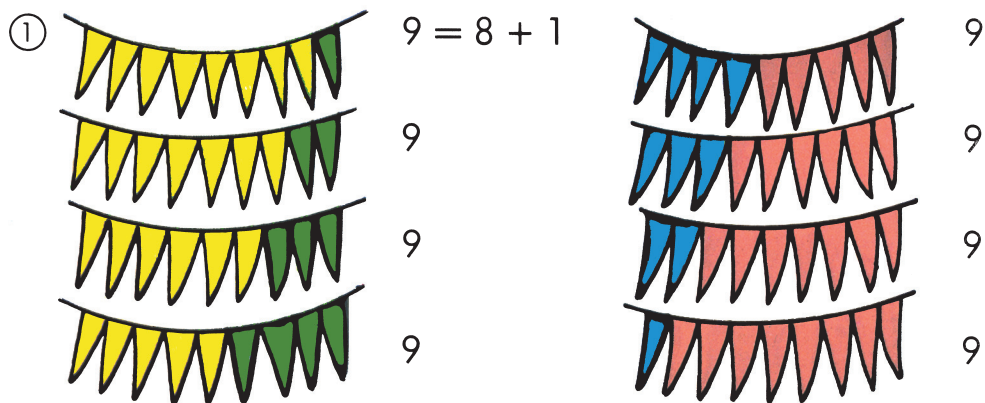
⑤  $6 + 3$

$$9 - 6$$

$$8 - 7$$

$$0 + 8$$





②

Suma <b>9</b>			
5	+	4	= 9
2	+	7	

③

Suma <b>7</b>			
6	+	1	= 7

④

Suma <b>8</b>			

⑤

Suma <b>6</b>			

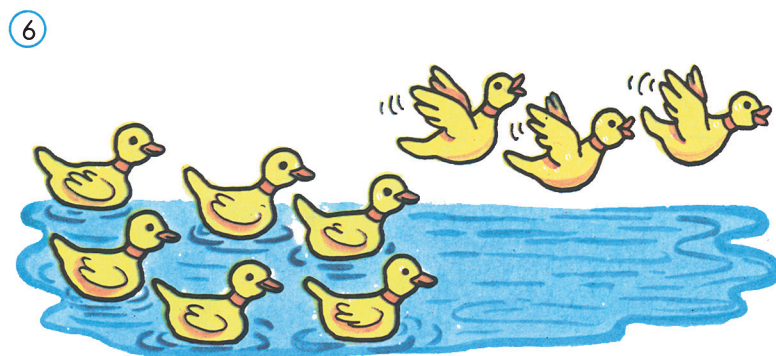
①  $9 - 3$   
 $5 + 3$   
 $8 + 1$   
 $9 - 9$

②  $2 + 6$   
 $8 - 1$   
 $9 + 0$   
 $5 - 5$

③  $9 - 7$   
 $2 + 7$   
 $9 - 2$   
 $7 + 2$

④  $9 - 5$   
 $8 - 5$   
 $7 - 5$   
 $6 - 5$

⑤  $0 + 6$   
 $1 + 6$   
 $2 + 6$   
 $3 + 6$



①  $9 - 6$   
 $9 - 4$

②  $9 - 7$   
 $9 - 2$

③  $9 - 8$   
 $9 - 5$

④  $9 - 1$   
 $9 - 3$

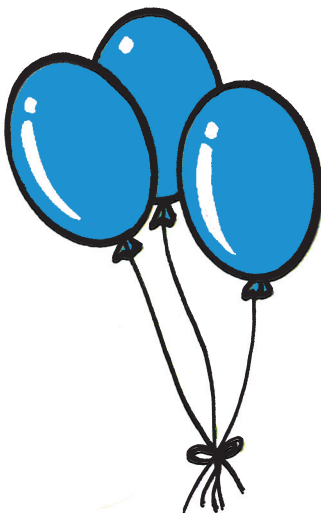
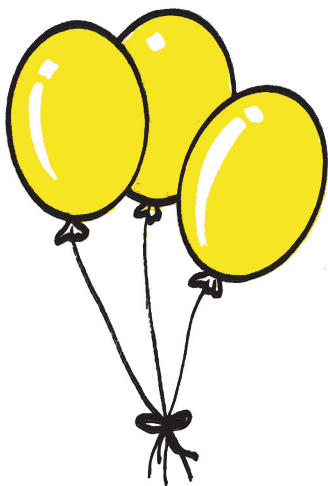
8	+	1	=	9
1	+	8	=	9
9	-	1	=	8
9	-	8	=	1

⑤  $6 + 3$

⑥  $5 + 4$

⑦  $2 + 7$

⑧



①

$i$	$i + 1$
6	
1	
5	

②

$u$	$u + 5$
3	
4	
2	

③

$i$	$2 + i$
7	
0	
6	

④

$a$	$a - 4$
6	
4	
7	

⑤

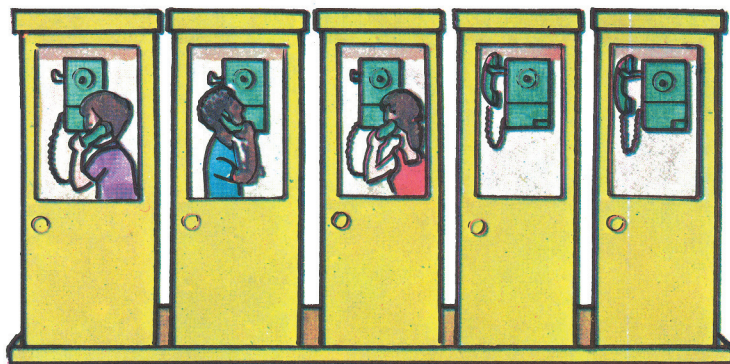
$e$	$e - 5$
9	
6	
8	

⑥

$a$	$7 - a$
5	
2	
8	

$$3 + a = 5$$

$$a = 2$$



5	+	a	=	7
		a	=	2

①  $3 + i = 6$

$2 + e = 3$

$5 + a = 8$

$6 + e = 9$

②  $7 + e = 8$

$4 + a = 9$

$5 + e = 8$

$2 + i = 6$

③  $1 + e = 4$

$5 + i = 9$

$6 + u = 6$

$3 + a = 9$

5	-	i	=	3
		i	=	2

④  $8 - i = 4$

$6 - a = 2$

$7 - e = 3$

$8 - e = 5$

⑤  $9 - a = 5$

$4 - i = 1$

$5 - a = 0$

$8 - e = 8$

⑥  $5 - e = 1$

$7 - i = 0$

$8 - u = 2$

$9 - a = 8$

⑦  $3 + a = 5$

$1 + e = 8$

$4 - a = 2$

$6 - i = 6$

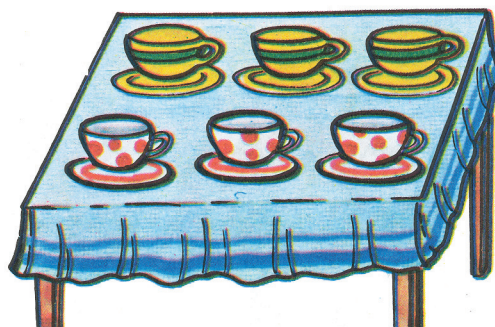
⑧  $5 - e = 3$

$7 - i = 2$

$5 + u = 7$

$2 + a = 9$

⑨





0 < 3	4 > 0
1 < 3	4 > 1
2 < 3	4 > 2
	4 > 3

①	0	5	6	0	0	7
	1	5	6	1	1	7
	2	5	6	2	2	7
	3	5	6	3	3	7
	4	5	6	4	4	7
			6	5	5	7
					6	7

②	8	0	8	4
	8	1	8	5
	8	2	8	6
	8	3	8	7

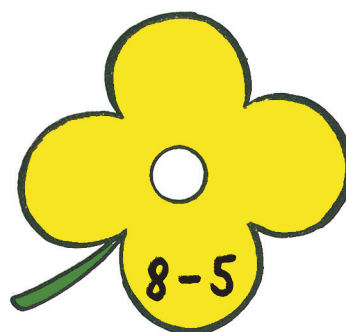
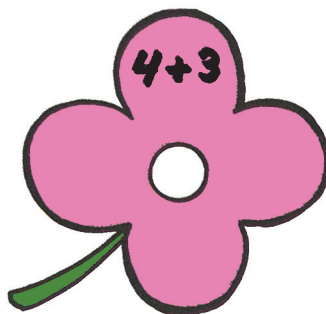
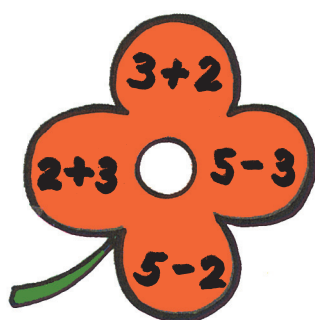
$4 < 5$ ;  $6 > 5$  son desigualdades.

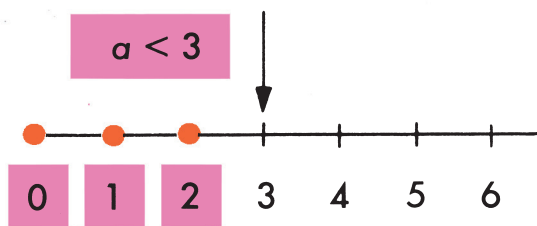
5 < 7; 5 + 2 = 7
4 < 5; 4 + 1 = 5

7 > 5; 5 + 2 = 7
5 > 4; 4 + 1 = 5

③	3	8	④	2	4	⑤	8	3	⑥	7	2
	4	7		1	6		7	4		9	8
	5	9		5	8		9	5		8	3

⑦

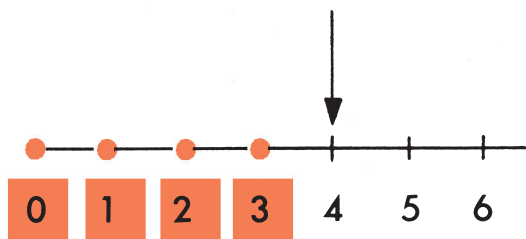




$a < 3$		
$a = 0, 1, 2$		

$4 > a$		
$a = 0, 1, 2, 3$		

- ①  $a < 2$   
 $e < 5$   
 $i < 3$   
 $u < 4$   
 $a < 1$



②  $3 > i$   
 $5 > u$

③  $1 > a$   
 $2 > e$

④  $i < 2$   
 $u < 5$

⑤  $3 > a$   
 $i < 1$

①



4	+	3	=	7
7	-	2	=	5
6		3		3

②

6	2	8
9	4	5
3	2	5

9	2	7
1	4	5
6	4	2

4	4	0
7	3	4
7	0	7

$$8 + 2$$



$$8 + 2 = 10$$

$$2 + 8 = 10$$

$$10 - 2 = 8$$

$$10 - 8 = 2$$

$$7 + 3$$



$$8 + 2 \quad 2 + 8$$

$$7 + 3 \quad 3 + 7$$

$$6 + 4 \quad 4 + 6$$

$$5 + 5$$

$$9 + 1 \quad 1 + 9$$

$$10 + 0 \quad 0 + 10$$

$$10 - 2 \quad 10 - 8$$

$$10 - 3 \quad 10 - 7$$

$$10 - 4 \quad 10 - 6$$

$$10 - 5$$

$$10 - 1 \quad 10 - 9$$

$$10 - 0 \quad 10 - 10$$

①  $4 + 5$

$$7 + 3$$

$$1 + 9$$

②  $5 + 5$

$$8 + 0$$

$$9 + 1$$

③  $5 - 4$

$$10 - 5$$

$$10 - 8$$

④  $3 - 0$

$$10 - 9$$

$$10 - 1$$

⑤  $2 - 1$

$$10 - 3$$

$$7 - 4$$

$$10 - 6$$

⑥  $9 - 4$

$$10 - 4$$

$$8 - 4$$

$$4 - 4$$

⑦  $0 + 9$

$$8 + 2$$

$$7 + 1$$

$$5 + 4$$

⑧  $1 - 1$

$$4 + 6$$

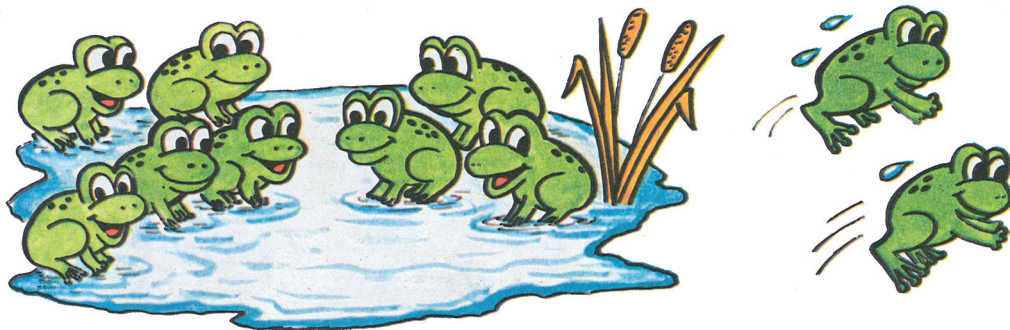
$$10 - 2$$

$$1 + 7$$

①		$10 = 9 + 1$	② $8 = 5 + 3$
		10	8
		10	8
		10	8
		10	
		10	
		10	③ $9 = 5 + 4$
		10	9
		10	9
		10	9

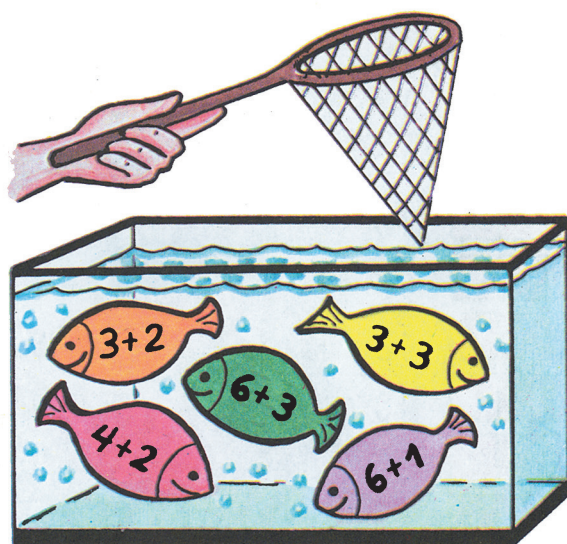
④ $7 + 3$	⑤ $6 + 4$	⑥ $8 + 2$	⑦ $9 + 1$
$3 + 7$			
$10 - 3$			
$10 - 7$			

① $a < 10$	② $9 > a$	③ $6 + a = 8$	④ $9 - e = 6$
$i < 8$	$10 > i$	$4 + a = 6$	$8 - e = 4$
$u < 9$	$8 > e$	$5 + a = 9$	$10 - e = 7$
$e < 1$	$1 > a$	$7 + a = 10$	$7 - e = 3$





①



$$10 \quad 5 + 1$$

$$6 \quad 2 + 1$$

$$3 \quad 9 + 1$$

$$4 \quad 5 + 3$$

$$8 \quad 3 + 0$$

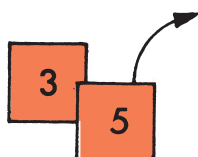
②

$$3 \quad 6 + 1 \quad 7 \quad 3 + 2 \quad 5 \quad 2 + 2$$

③

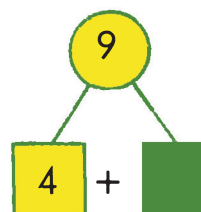
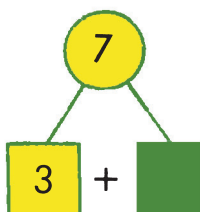
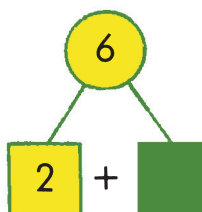
Diferencia	
	2
5 - 3 =	2
10 - 8 =	

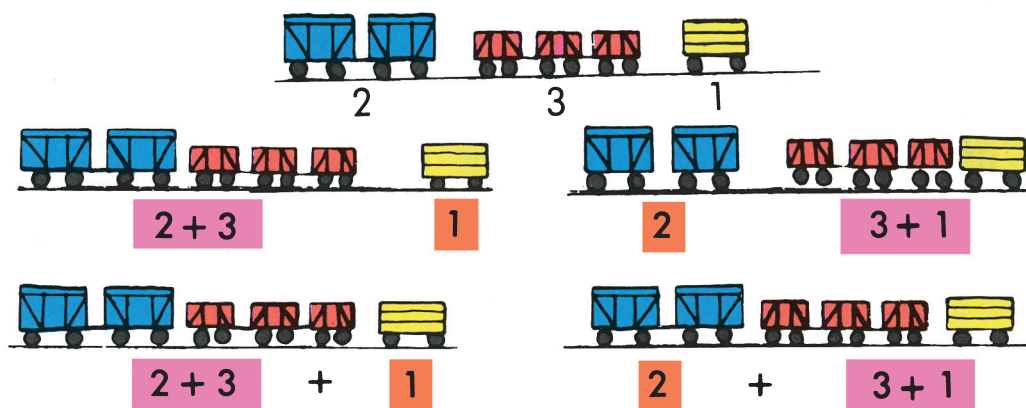
④



$3 + 2$	$8 - 5$	$2 + 1$
$9 - 8$	$6 + 2$	$3 + 3$
$6 - 3$	$5 + 5$	$7 - 4$

⑤





$$\begin{array}{r}
 2 + 3 + 1 \\
 \hline
 2 + 3 = 5 \\
 5 + 1 = 6 \\
 \hline
 2 + 3 + 1 = 6
 \end{array}$$

$$\begin{array}{r}
 2 + 3 + 1 \\
 \hline
 2 + (3 + 1) = 4 \\
 2 + 4 = 6 \\
 \hline
 2 + 3 + 1 = 6
 \end{array}$$

Los sumandos pueden asociarse de diferentes maneras. La suma es igual.

$$2 + 3 + 1 = 6$$

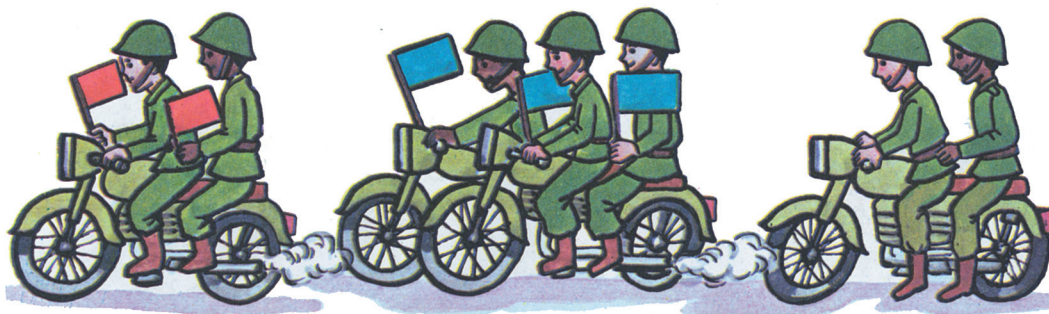
$$\begin{array}{l}
 \textcircled{1} \quad 2 + 4 + 1 \\
 \quad \quad 2 + 4 + 1
 \end{array}$$

$$\begin{array}{l}
 \textcircled{2} \quad 4 + 3 + 2 \\
 \quad \quad 4 + 3 + 2
 \end{array}$$

$$\begin{array}{l}
 \textcircled{3} \quad 1 + 1 + 7 \\
 \quad \quad 6 + 2 + 2
 \end{array}$$

$$\begin{array}{l}
 \textcircled{4} \quad 5 + 3 + 2 \\
 \quad \quad 3 + 3 + 2
 \end{array}$$

$$\begin{array}{l}
 \textcircled{5} \quad 2 + 5 + 1 \\
 \quad \quad 2 + 5 + 1
 \end{array}$$



$$7 - 2 - 3$$

$$7 - 2 - 3 = 2$$

$$7 - 2 = 5$$

$$\textcircled{1} 5 - 1 - 2$$

$$\textcircled{2} 6 - 1 - 2$$

$$5 - 3 = 2$$

$$6 - 2 - 2$$

$$8 - 2 - 4$$

$$7 - 2 - 3 = 2$$

$$5 - 3 - 2$$

$$9 - 2 - 1$$

$$\textcircled{3} 6 - 3 - 3$$

$$\textcircled{4} 9 - 4 - 4$$

$$\textcircled{5} 10 - 4 - 5$$

$$7 - 3 - 2$$

$$7 - 4 - 1$$

$$8 - 5 - 1$$

$$8 - 2 - 3$$

$$10 - 5 - 3$$

$$7 - 5 - 2$$

$$9 - 2 - 1$$

$$8 - 4 - 3$$

$$9 - 2 - 5$$

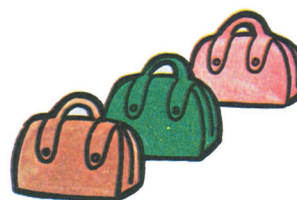
$\textcircled{7}$

$$\textcircled{6} 5 + 1 + 4$$

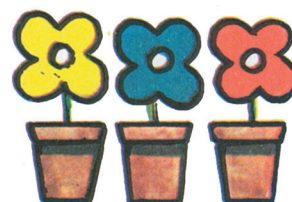
$$10 - 2 - 5$$

$$5 + 2 + 1$$

$$7 - 1 - 4$$



$\textcircled{8}$



Si  $a = 5$  y  $e = 3$   
entonces  $a + e = 8$

Si  $e = 6$  y  $u = 3$   
entonces  $e - u = 3$

①

$a$	$e$	$a + e$
5	3	
4	2	
1	6	
7	2	

②

$e$	$u$	$e - u$
6	3	
9	2	
8	5	
10	6	

③

$u$	$i$	$u + i$
3	3	
2	0	
8	2	
9	1	

④

$e$	$i$	$e - i$
5	3	
4	2	
7	5	
2	9	

⑤

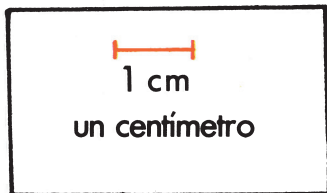
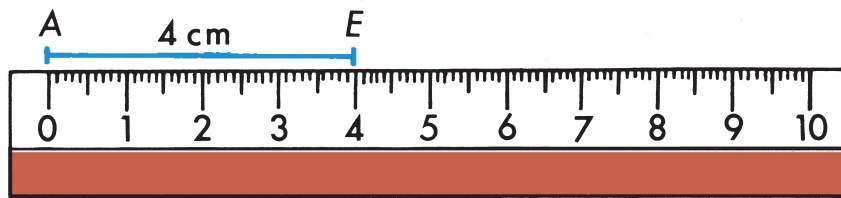


⑥  $5 + 4$   
 $4 + 5$   
 $9 - 4$   
 $9 - 5$

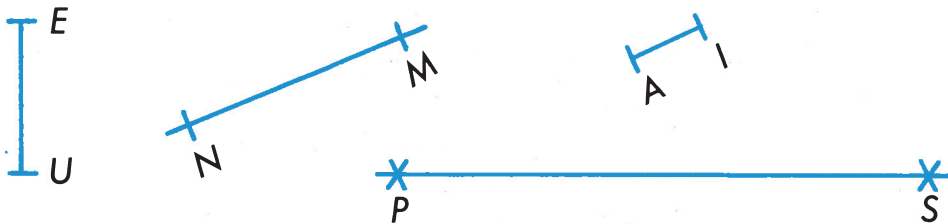
⑦  $5 + 3$

⑧  $6 + 4$

⑨  $7 + 0$

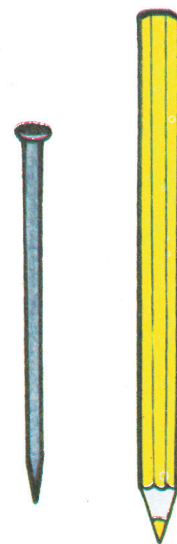
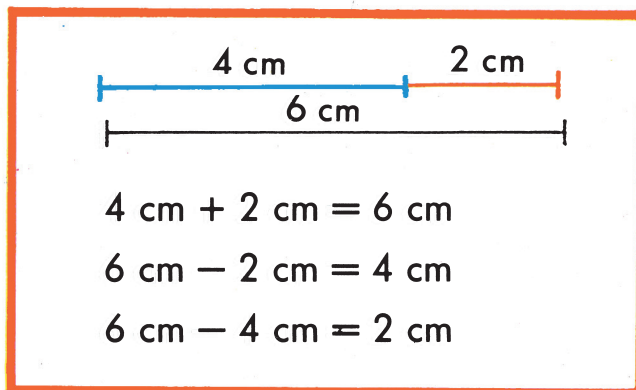


① Mide la longitud en centímetros de los segmentos siguientes :



② Traza segmentos que tengan las longitudes siguientes :  
3 cm | 6 cm | 1 cm | 8 cm | 4 cm

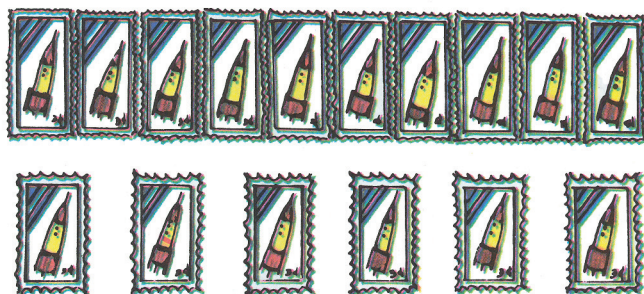
③ Mide la longitud de los objetos representados en la página :



④ 6 cm + 3 cm | 7 cm - 6 cm



## Los números desde 0 hasta 20

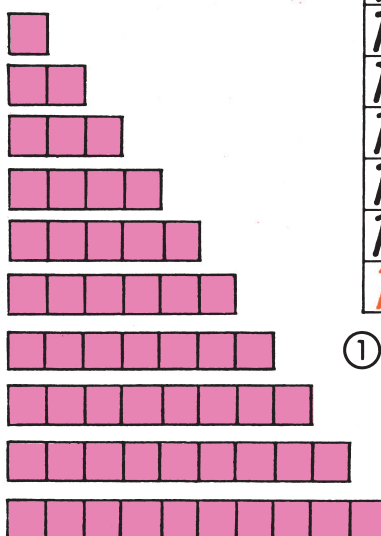
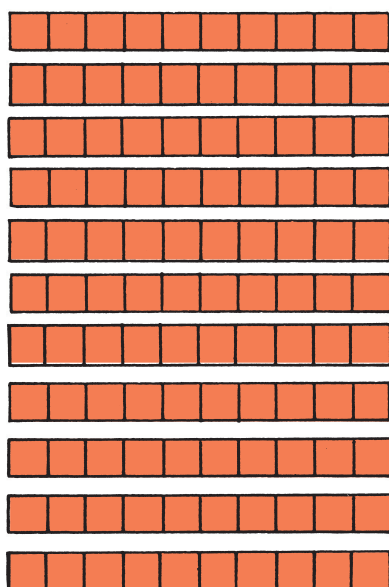


10



6

$$10 + 6 = 16$$



10	+	0	=	10
10	+	1	=	11
10	+	2	=	12
10	+	3	=	13
10	+	4	=	14
10	+	5	=	15
10	+	6	=	16

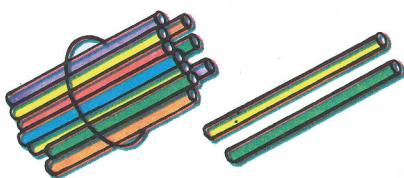
$$\textcircled{1} 10 + 7$$

$$10 + 8$$

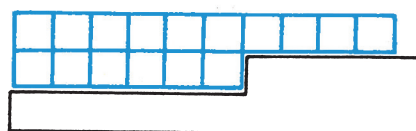
$$10 + 9$$

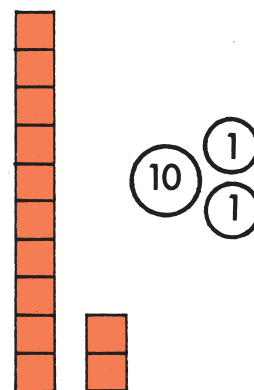
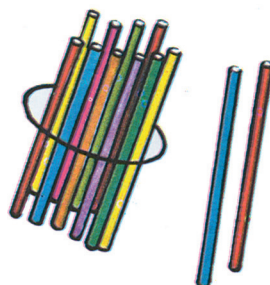
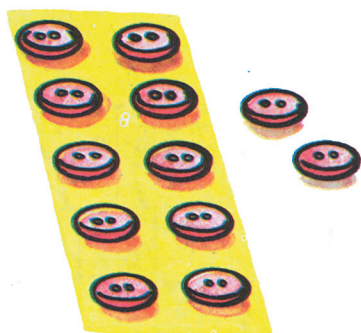
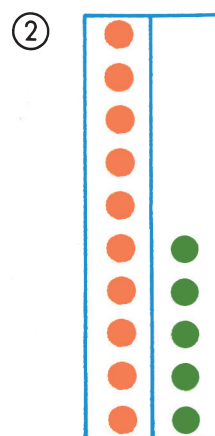
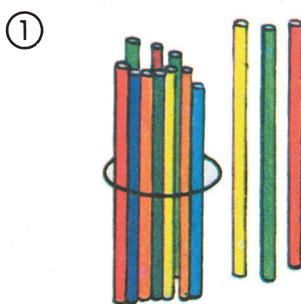
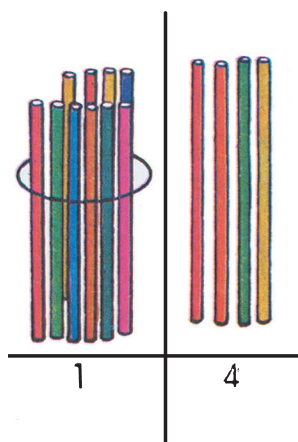
$$10 + 10 = 20$$

②



③





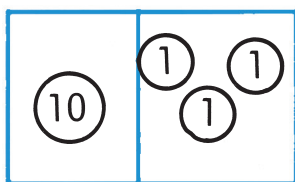
③ Representa con tus materiales :

16 | 11 | 10 | 18 | 20 | 15

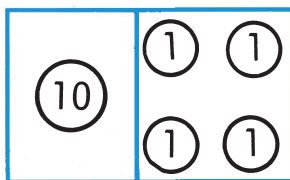


④ Forma con tarjetas :

12	17	13
15	14	19
18	11	16



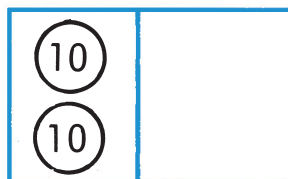
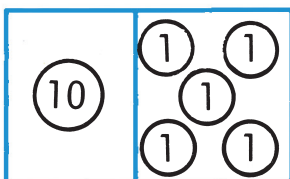
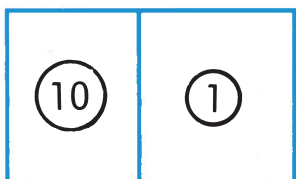
$$10 + 3 = 13$$



$$10 + 4 = 14$$

10	1
1	3
1	4

①



Representa con fichas:

②

10	1
1	7
1	9
1	8

③ 12

15

20

17

④ 14

9

18

6

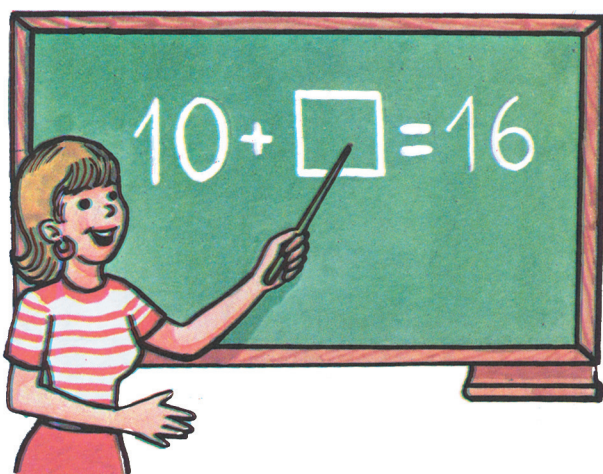
⑤  $10 + 8$  $10 + 2$  $10 + 6$  $10 + 3$ 

Lee y escribe:

⑥

11	16	7	14	9	3	10	8	17
0	2	18	6	12	20	4	15	19

⑦  $10 + 7$  $10 + 1$  $10 + 4$  $10 + 0$ ⑧  $10 + 5$  $10 + 8$  $10 + 9$  $10 + 10$ 

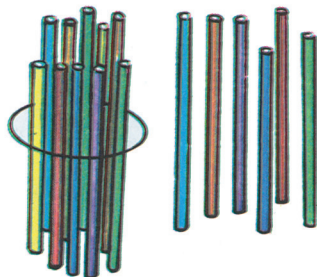


$$10 + a$$

Si  $a = 6$  entonces

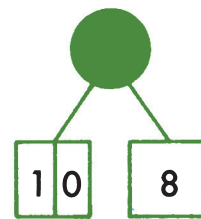
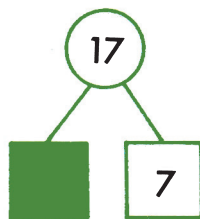
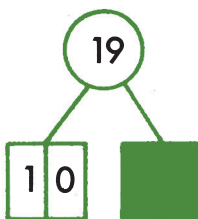
$$10 + a = 16$$

porque  $10 + 6 = 16$

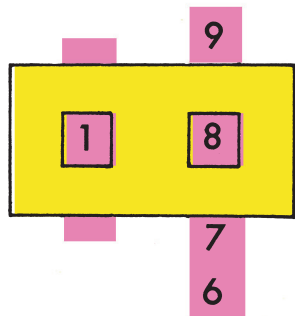


① $a$	$10 + a$
6	
4	
2	
8	

②

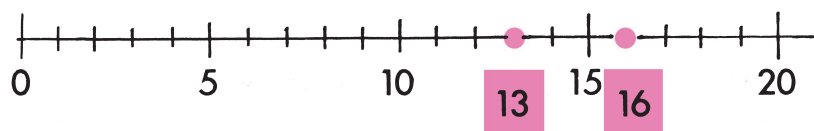


③

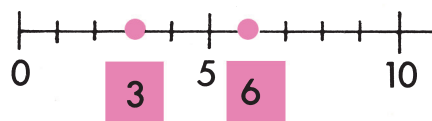


④ Lee :

7	8	13
17	18	14
12	16	9
15	20	19



$\begin{array}{cc} 1 & 3 \\ \text{porque} & 3 \end{array} < \begin{array}{cc} 1 & 6 \\ & 6 \end{array}$
$\begin{array}{cc} 1 & 6 \\ \text{porque} & 6 \end{array} > \begin{array}{cc} 1 & 3 \\ & 3 \end{array}$



Compara :

①  $\begin{array}{cc} 6 & 2 \\ 16 & 12 \end{array} \quad \begin{array}{cc} 3 & 9 \\ 13 & 19 \end{array} \quad \begin{array}{cc} 4 & 1 \\ 14 & 11 \end{array} \quad \begin{array}{cc} 13 & 18 \\ 20 & 17 \end{array}$

②  $\begin{array}{cc} 12 & 15 \\ 11 & 17 \end{array} \quad \begin{array}{cc} 19 & 14 \\ 18 & 12 \end{array} \quad \begin{array}{cc} 15 & 20 \\ 16 & 11 \end{array} \quad \begin{array}{cc} 16 & 15 \\ 14 & 17 \end{array}$

③ Ordena. Comienza por el menor :

20, 15, 18, 19, 13

12, 19, 16, 17, 11

5, 13, 16, 9, 20



Cuenta :

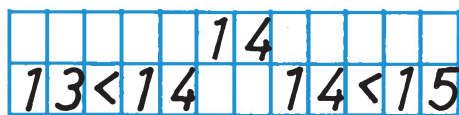
④  $\begin{array}{cc} \text{del } 12 & \text{al } 18 \\ \text{del } 20 & \text{al } 14 \end{array} \quad \begin{array}{cc} \text{del } 6 & \text{al } 13 \\ \text{del } 14 & \text{al } 8 \end{array} \quad \begin{array}{cc} \text{del } 11 & \text{al } 17 \\ \text{del } 19 & \text{al } 10 \end{array}$





13 es el antecesor de 14

15 es el sucesor de 14



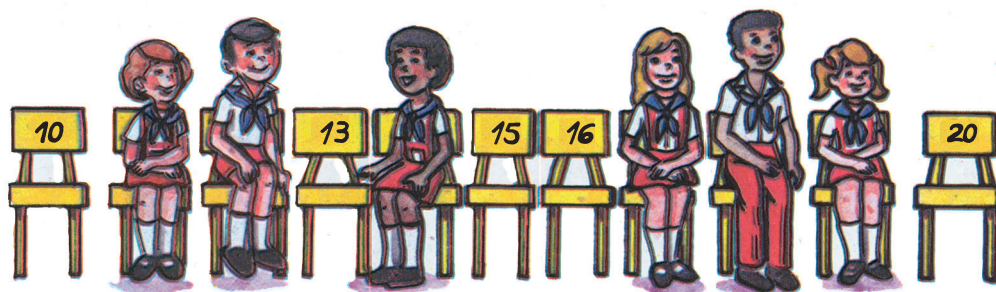
Determina el antecesor y el sucesor de los números siguientes :

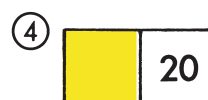
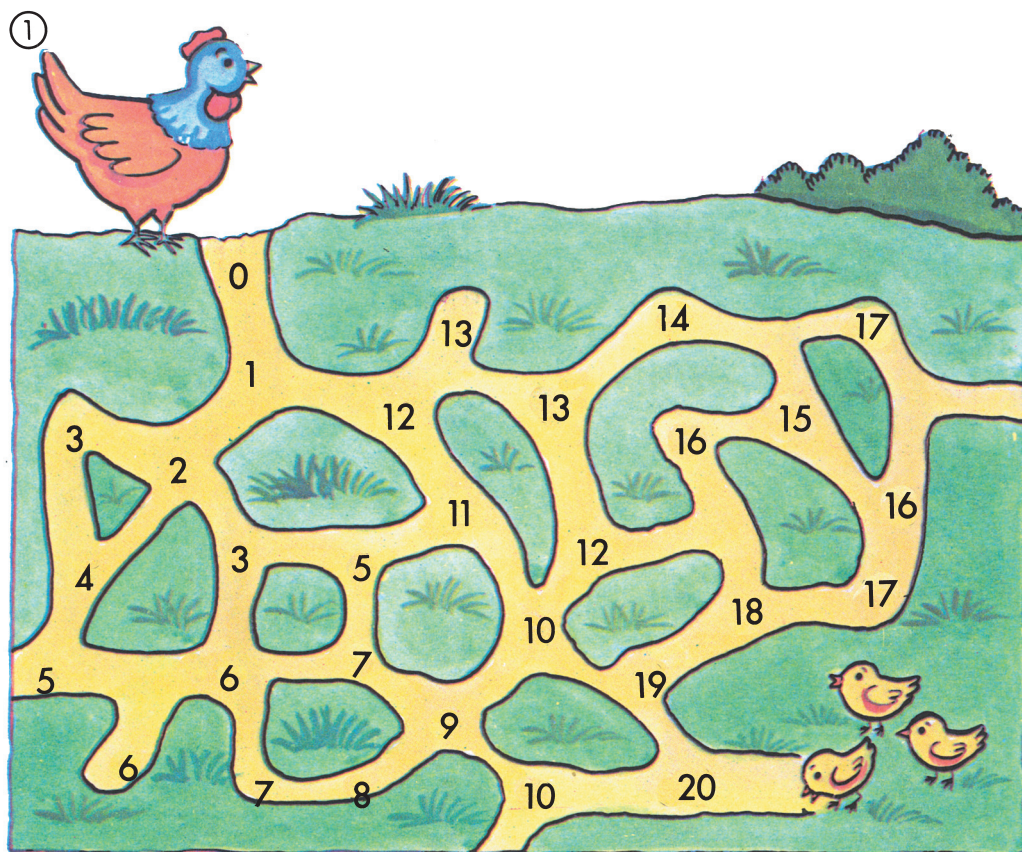
- ① 12      ② 16      ③ 19      ④ 15      ⑤ 10  
17      13      11      18      1

Entre 11 y 15 están 12, 13, 14.



⑦





⑦  $3 + 4$

$5 + 5$

$7 + 0$

$8 + 1$

⑧  $7 - 3$

$8 - 2$

$10 - 7$

$9 - 6$

⑨  $6 + 4$

$7 + 2$

$0 + 3$

$8 + 1$

⑩  $6 - 3$

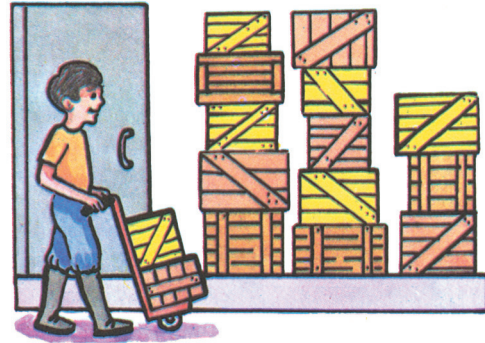
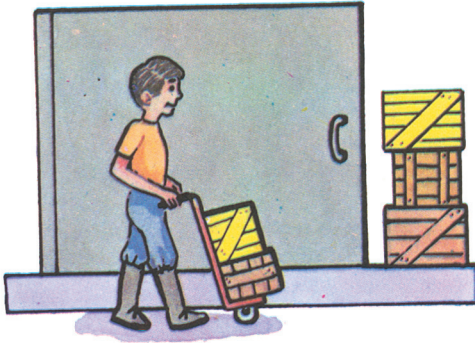
$9 - 0$

$8 - 5$

$4 - 3$

## Adición y sustracción hasta 20

$$13 + 2$$



$$3 + 2$$

$$13 + 2 = 15$$

1	3	+	2	=	1	5
	3	+	2	=		5

①  $15 + 3$   
 $5 + 3$

$12 + 4$   
 $2 + 4$

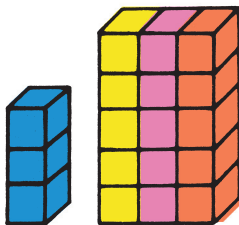
$11 + 6$   
 $1 + 6$

②  $12 + 5$   
 $14 + 2$   
 $16 + 1$   
 $15 + 4$

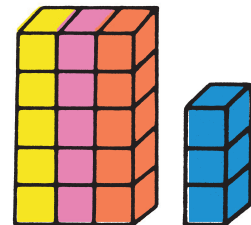
③  $17 + 2$   
 $14 + 3$   
 $11 + 4$   
 $18 + 1$

④  $11 + 3$   
 $13 + 6$   
 $15 + 1$   
 $12 + 2$

⑤  $13 + 1$   
 $14 + 4$   
 $16 + 3$   
 $11 + 5$



	3	+	1	5	=	1	8
1	5	+		3	=	1	8

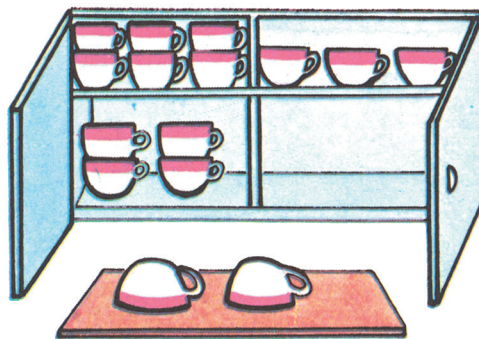
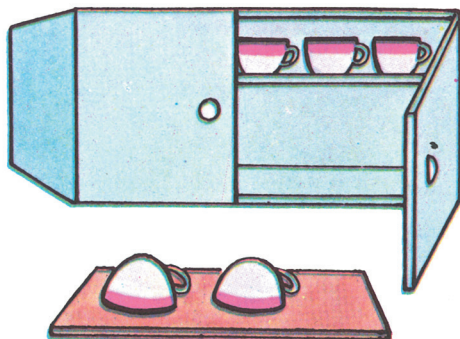


⑥  $4 + 12$   
 $12 + 4$

$2 + 13$   
 $13 + 2$

⑦  $3 + 12$   
 $5 + 11$

⑧  $4 + 13$   
 $3 + 15$

**15 - 2**

$$5 - 2 = 3$$

$$15 - 2 = 3$$

1	5	-	2	=	1	3
	5	-	2	=		3

①  $17 - 3$

$7 - 3$

$19 - 5$

$9 - 5$

$20 - 6$

$10 - 6$

②  $19 - 4$

$17 - 5$

$15 - 1$

$16 - 5$

③  $18 - 6$

$13 - 1$

$19 - 6$

$16 - 2$

④  $17 - 4$

$14 - 2$

$20 - 8$

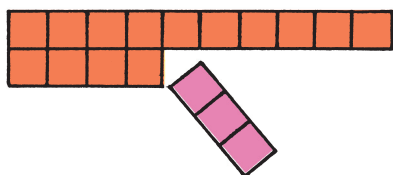
$15 - 4$

⑤  $18 - 3$

$19 - 7$

$17 - 2$

$18 - 4$



1	7	-	3	=	1	4
1	4	+	3	=	1	7

⑥  $16 - 4$

$12 + 4$

$13 - 2$

$11 + 2$

⑦  $18 - 5$

$13 + 5$

$20 - 4$

$16 + 4$

⑧  $16 - 3$

$10 - 5$

⑨  $12 + 4$

$17 + 2$

⑩  $20 - 5$

$19 - 2$

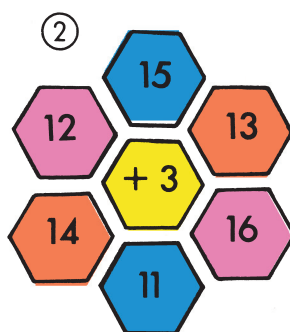
⑪  $15 - 3$

$14 + 2$



①

$a$	$a + 3$
11	
14	
16	
12	
15	

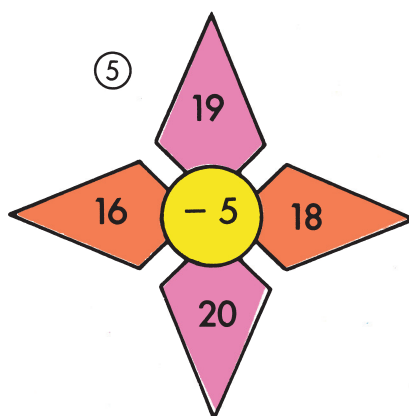


③

$e$	$e - 5$
18	
16	
19	
17	
20	

④

$i$	$20 - i$
4	
7	
2	
6	
9	



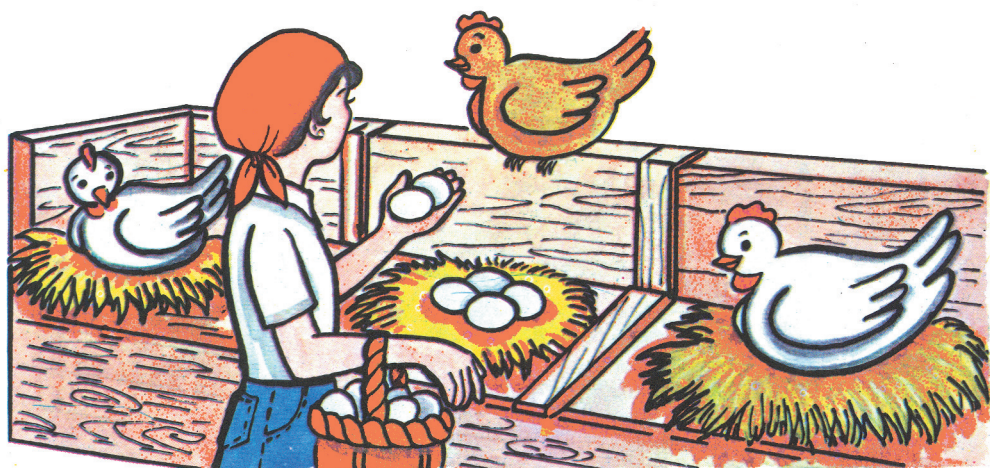
⑥

$i$	$10 - i$
4	
7	
2	
6	
9	

⑦

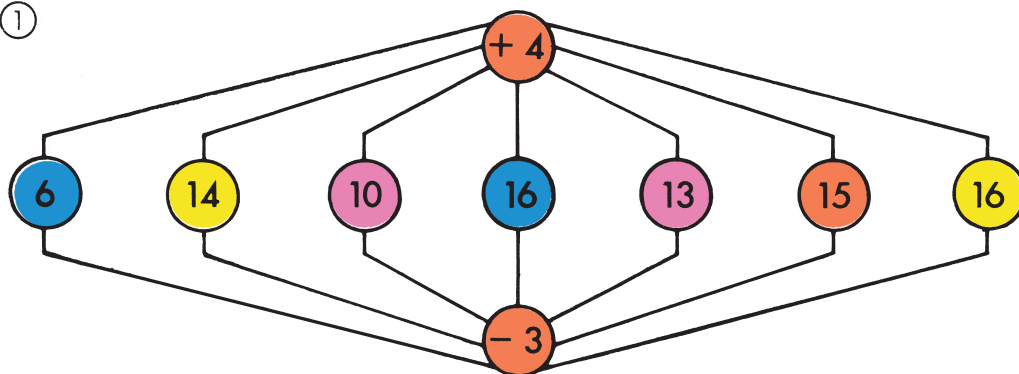
$12 + 5$	$18 - 6$	⑧	$11 + 8$	$18 - 4$
$13 + 7$	$20 - 3$		$15 + 5$	$19 - 2$

⑨





①



②  $4 + a = 7$

$5 + e = 9$

$7 + x = 10$

③  $8 - a = 4$

$9 - e = 4$

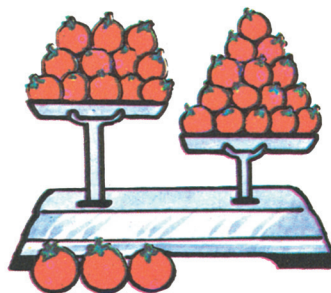
$7 - x = 6$

④  $8 + x = 10$

$9 - x = 2$

$4 + x = 10$

1	2	+	x	=	1	5
			x	=		3

porque  $12 + 3 = 15$ 

⑤  $13 + x = 16$

$14 + x = 18$

$17 + x = 20$

⑥  $18 - x = 13$

$16 - x = 12$

$19 - x = 11$

⑦  $15 - x = 13$

$12 + x = 19$

$20 - x = 11$

⑧

a	e	a + e
12	4	
15	3	
14	6	

⑨

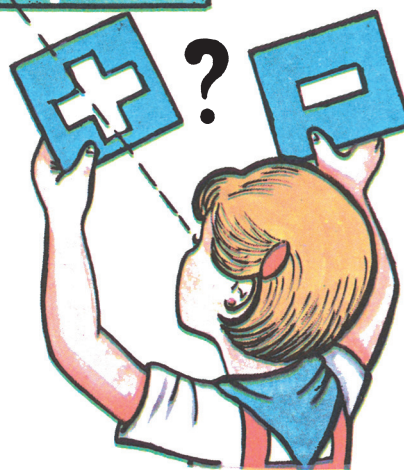
e	i	e - i
15	3	
14	2	
20	5	

⑩

u	e	u + e
17	2	
15	5	
12	0	

12	+		4	=	16
16	-		4	=	12
12	=	16	-		4
16	=	12	+		4

$$16 - 4 = 12$$



①  $\begin{matrix} 15 & 2 & 13 \\ 12 & 4 & 16 \end{matrix}$       ②  $\begin{matrix} 14 & 17 & 3 \\ 18 & 12 & 6 \end{matrix}$

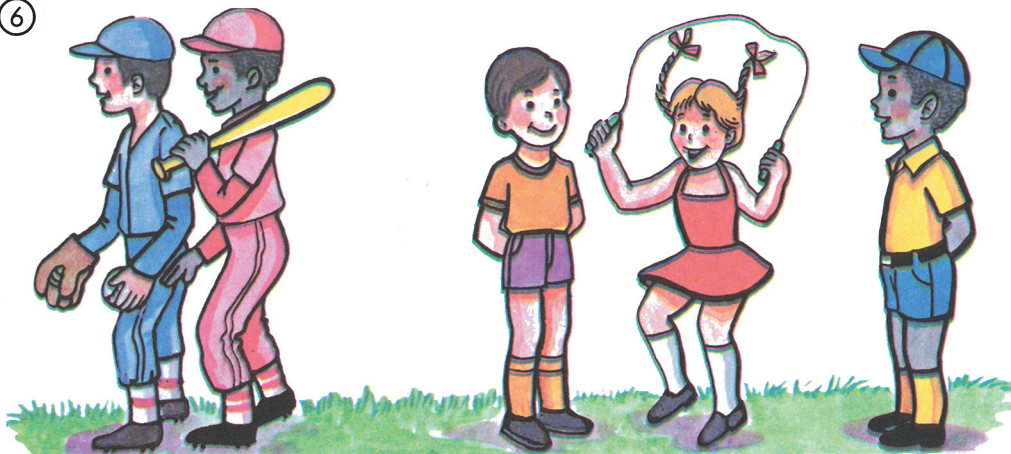
14	<	17		
14	+	3	=	17
19	>	14		
19	=	14	+	5

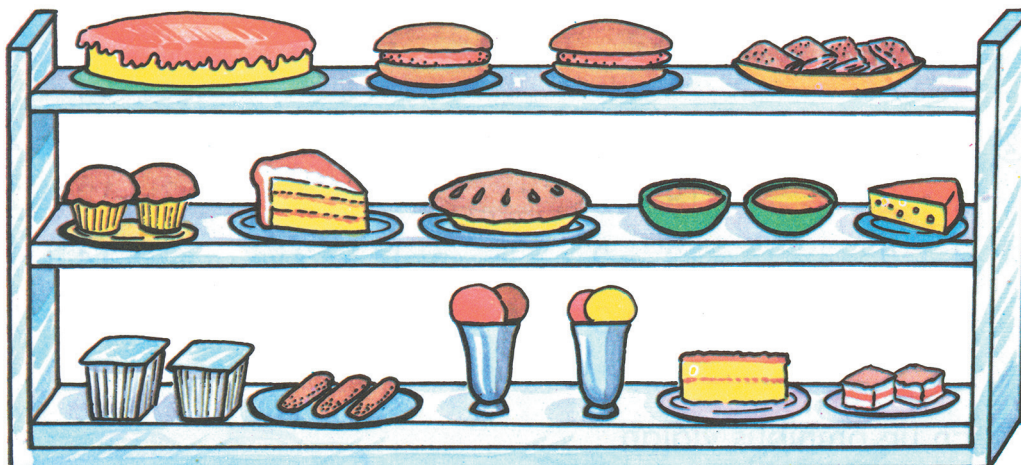
③  $\begin{matrix} 11 & 14 \\ 13 & 16 \\ 15 & 12 \\ 20 & 16 \end{matrix}$       ④  $\begin{matrix} 13 & 19 \\ 17 & 14 \\ 12 & 20 \\ 19 & 15 \end{matrix}$

⑤ Ordena. Comienza por el menor:

19, 9, 15, 20, 8, 11

⑥





10¢

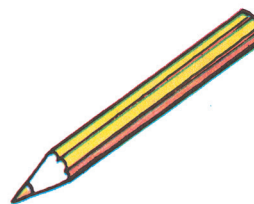


5¢

15¢



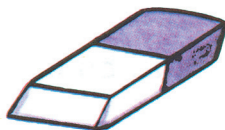
15¢



3¢



13¢



5¢

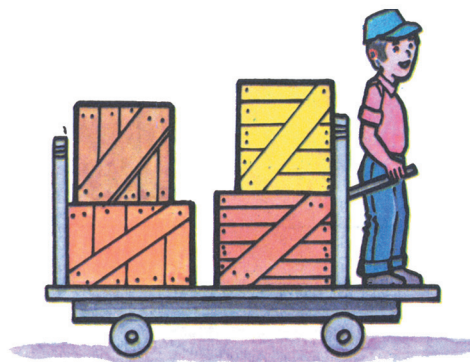


10¢



2¢

①



②  $0 + 2$

$2 + 2$

$4 + 2$

$8 + 2$

③  $17 - 6$

$18 - 7$

$13 - 2$

$15 - 3$

④  $18 - 6$

$17 - 5$

$16 - 2$

$19 - 6$

⑤  $10 + 2$

$12 + 2$

$14 + 2$

$18 + 2$

- ⑥ En un ómnibus viajan 18 trabajadores. En otro ómnibus viajan 2 trabajadores más. ¿Cuántos trabajadores viajan en este último ómnibus?



- ⑦ Forma igualdades :

5	3	8		9	4	5
14	3	17		16	2	14
10	3	7		18	2	20

- ⑧ Adiciona 17 y 3.  
Sustraer 5 de 18.

- ⑨ Deben llegar 9 cajas con maquinarias. En un camión llegan 5 cajas. ¿Cuántas cajas deben llegar en el otro camión?



- ① Bernardo tiene 5 bolas.

Pablo tiene la misma  
cantidad de bolas.

¿ Cuántas bolas tiene  
Pablo ?



- ② Carlos tiene 19 lápices de colores en una caja. Jorge le  
pide 3 de esos lápices. ¿ Cuántos lápices le quedan  
entonces a Carlos en la caja ?

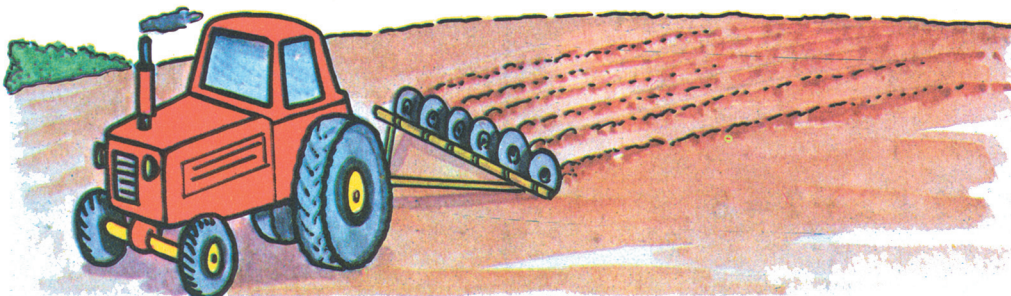
③  $2 + x = 8$       ④  $17 + x = 20$

$20 - x = 18$        $6 - x = 1$

$12 + x = 16$        $18 - x = 15$

$10 - x = 2$        $5 + x = 20$

⑤	$a$	$a + 4$
	12	
	10	
	15	
	16	

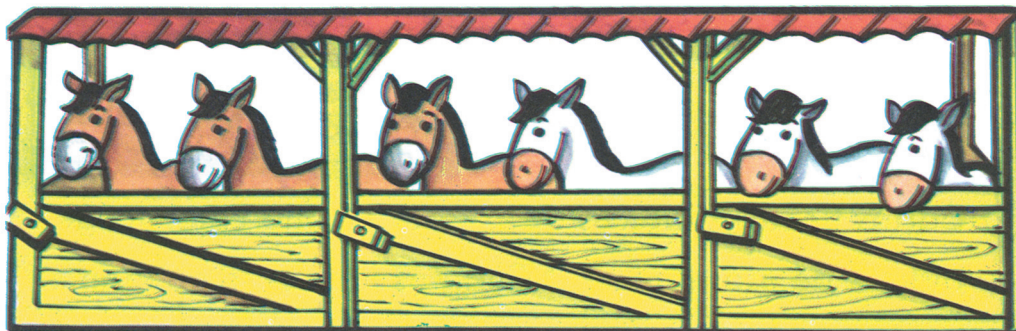


- ⑥ En un campo trabajan 2 brigadas de 4 campesinos  
cada una. ¿ Cuántos campesinos trabajan en el campo ?
- ⑦ En un campo trabajan 5 tractores. Uno de ellos se va.  
¿ Cuántos tractores quedan en el campo ?
- ⑧ Se sembraron 3 canteros de tomates y 5 de ajíes.  
¿ Cuántos canteros se sembraron en total ?



## Los números desde 0 hasta 100

*Multiplicar*



$$2 + 2 + 2 = 6$$

2

3

6

$$3 + 3 = 6$$

$$2 \cdot 3 = 6$$

$$3 \cdot 2 = 6$$



$$2 + 2 + 2 + 2 = 8$$

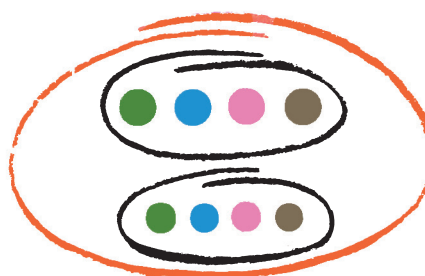
2

4

8

$$2 \cdot 4 = 8$$

$$4 \cdot 2 = 8$$



$$4 + 4 = 8$$

- Este es el signo "por".

Factor

3

Factor

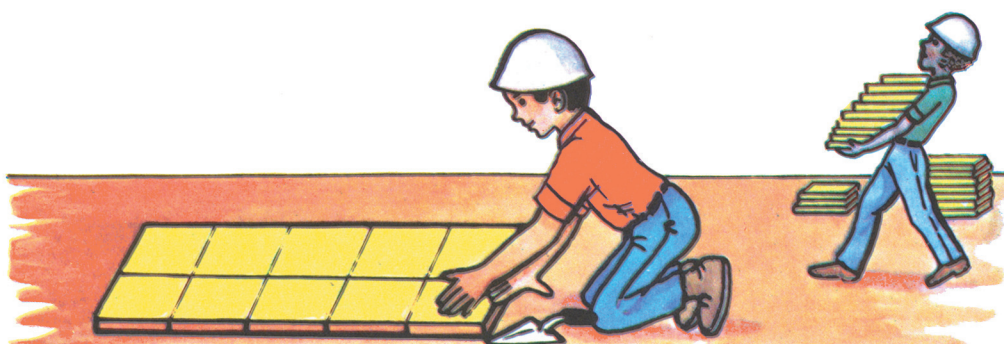
2

=

6

Producto

Producto



$$2 + 2 + 2 + 2 + 2 = 10$$

$$5 + 5 = 10$$

$$2 \cdot 5 = 10$$

$$5 \cdot 2 = 10$$



$$2 + 2 + 2 + 2 = 8$$

$$4 + 4 = 8$$

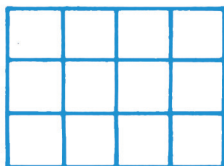
$$4 \cdot 2 = 8$$

$$2 \cdot 4 = 8$$

Los factores pueden intercambiarse ; el producto es igual.

① Cuenta el número de cuadraditos.

$$3 \cdot 4$$



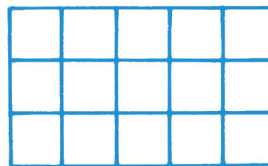
$$3 \cdot 4 = 12$$

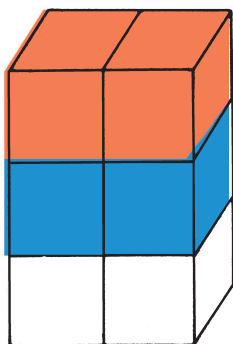
$$4 \cdot 3 = 12$$

$$5 \cdot 2$$



$$5 \cdot 3$$

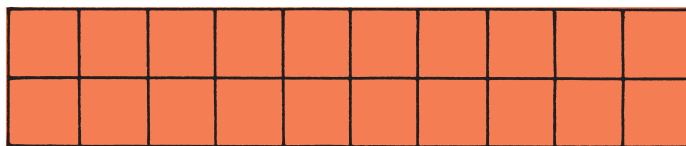




$$2 + 2 + 2 = 6$$

$$3 \cdot 2 = 6$$

$$2 \cdot 3 = 6$$

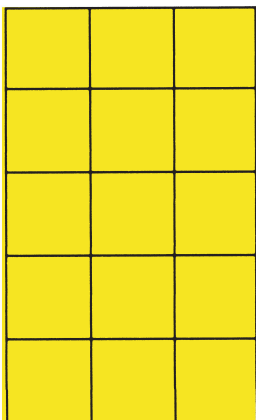


$$10 + 10 = 20$$

$$2 \cdot 10 = 20$$

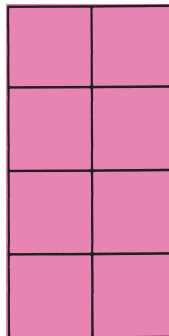
$$10 \cdot 2 = 20$$

①



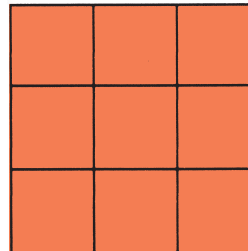
$$5 + 5 + 5$$

②



$$4 + 4$$

③



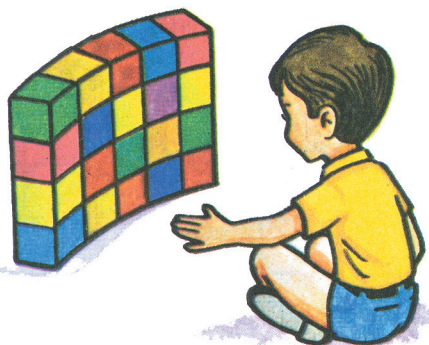
$$3 + 3 + 3$$

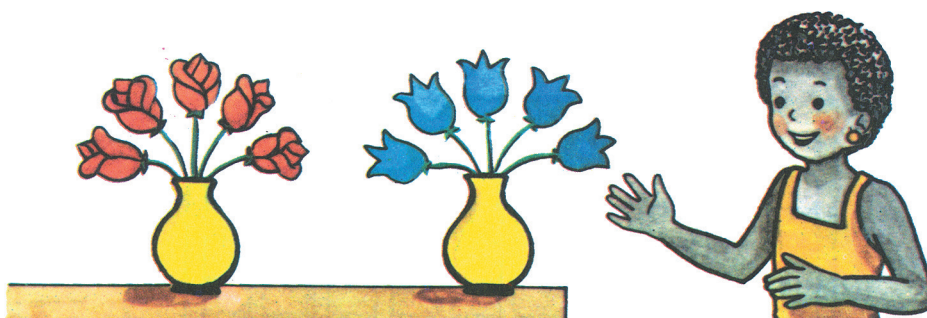
④

$a$	$a + a$
1	
3	
4	
10	
5	

⑤

$a$	$a \cdot 2$
1	
3	
4	
10	
5	





- ① Marta tiene 2 búcaros. Ella colocó 5 flores en cada uno. ¿ Cuántas flores colocó Marta ?

$$2 \cdot 5 = 10$$

Respuesta : Marta colocó 10 flores.

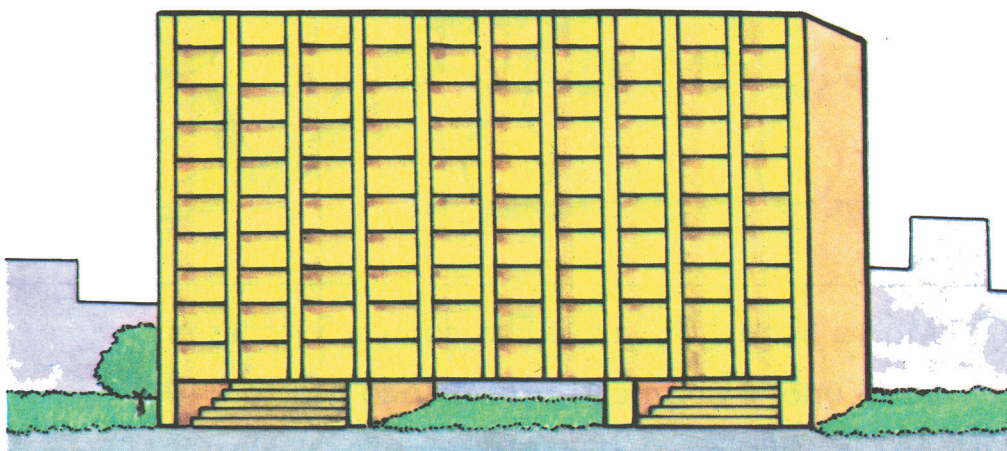


- ② A una fábrica llegan 3 camiones. Si cada camión trae 4 cajas, ¿ cuántas cajas hay en total ?

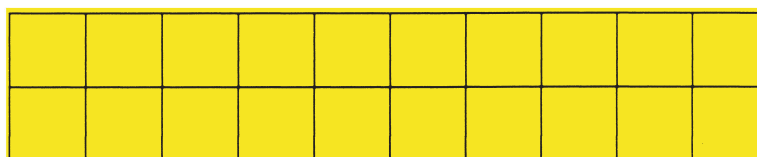
- ③ En una caja hay 10 lápices.  
¿ Cuántos lápices hay en 2 cajas ?



## Los múltiplos de 10

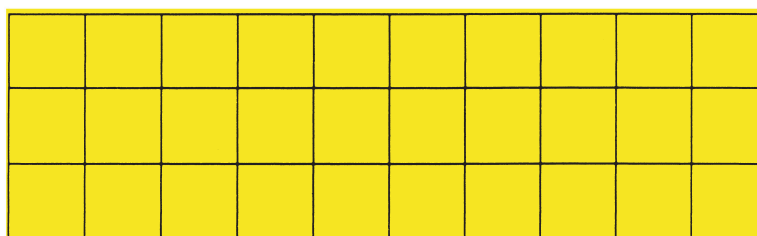


10



$$10 + 10 = 20$$

$$2 \cdot 10 = 20$$



$$20 + 10 = 30$$

$$3 \cdot 10 = 30$$

$$30 + 10 = 40, \dots, 90 + 10 = 100$$

$$4 \cdot 10 = 40, \dots, 10 \cdot 10 = 100$$



									10	$1 \cdot 10 = 10$
									20	$2 \cdot 10 = 20$
									30	$3 \cdot 10 = 30$
									40	$4 \cdot 10 = 40$
									50	$5 \cdot 10 = 50$
									60	$6 \cdot 10 = 60$
									70	$7 \cdot 10 = 70$
									80	$8 \cdot 10 = 80$
									90	$9 \cdot 10 = 90$
									100	$10 \cdot 10 = 100$

10 20 30 40 50 60 70 80 90 100

10

$$1 \cdot 10 = 10$$

10 10

$$20 = 10 + 10$$

$$20 = 2 \cdot 10$$

10 10 10

$$30 = 10 + 10 + 10$$

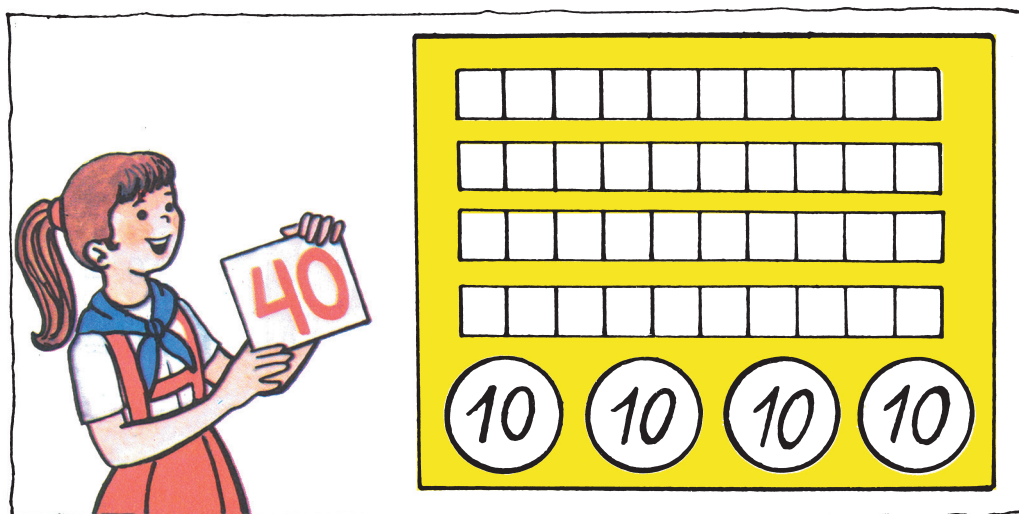
$$30 = 3 \cdot 10$$

①

10 10 10 10 10 10

②

10 10 10 10 10 10 10 10



Representa con tiras de 10 :

- ① 30, 20, 50, 10, 70  
40, 90, 60, 80, 100

Representa con fichas :

- ② 20, 60, 90, 40, 10  
30, 70, 50, 80, 100

$$3 \cdot 10 = 30$$

$$30 = 3 \cdot 10$$

③  $4 \cdot 10$

④  $8 \cdot 10$

⑤ 20

⑥ 100

$7 \cdot 10$

$6 \cdot 10$

50

40

$2 \cdot 10$

$10 \cdot 10$

70

80

$$30 = 20 + 10$$

⑦ 70

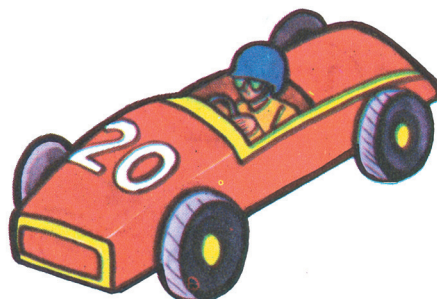
⑧ 50

40

20

60

100



$x$	$\cdot$	10	=	40
		$x$	=	4

porque  $4 \cdot 10 = 40$

①  $x \cdot 10 = 20$

$x \cdot 10 = 80$

$x \cdot 10 = 100$

②  $x \cdot 10 = 50$

$x \cdot 10 = 30$

$x \cdot 10 = 70$

50	=	$x$	$\cdot$	10
		$x$	=	5

porque  $50 = 5 \cdot 10$

③  $80 = x \cdot 10$

$40 = x \cdot 10$

$10 = x \cdot 10$

④  $30 = x \cdot 10$

$70 = x \cdot 10$

$20 = x \cdot 10$

⑤  $x \cdot 10 = 60$

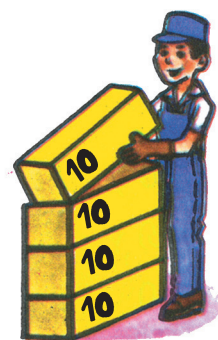
$x \cdot 10 = 90$

$x \cdot 10 = 10$

⑥  $100 = x \cdot 10$

$60 = x \cdot 10$

$90 = x \cdot 10$

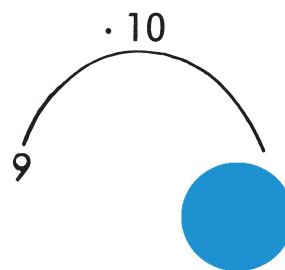
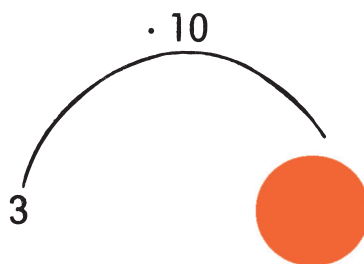


⑦	$a$	$a \cdot 10$
	6	
	3	
	9	
	2	

⑧	$e$	$e \cdot 10$
	4	
	1	
	5	
	10	

⑨	$u$	$u + 10$
	40	
	10	
	70	
	0	

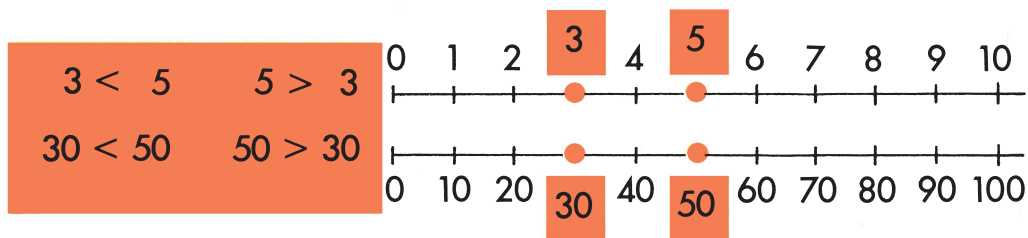
⑩





2 fichas de 10 son menos que 3 fichas de 10.

3 fichas de 10 son más que 2 fichas de 10.



Representa con fichas y compara :

① 30 y 50

40 y 70

80 y 90

② 20 y 10

70 y 30

90 y 50

③ 30 y 20

10 y 40

80 y 60

Compara :

④

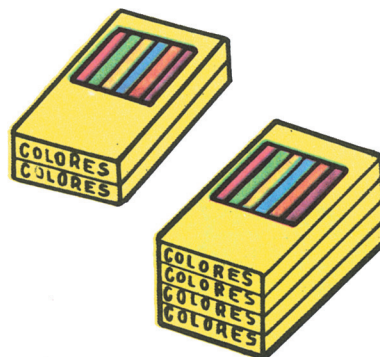
2	6	7	4	8	6	5	9
20	60	70	40	80	60	50	90

⑤

10	50	90	40
20	30	80	30
40	80	50	20

⑥

60	80	60	20
10	70	50	10
60	90	70	100



Compara :

①	50	10	100	40	70	10	10	90
	80	90	20	80	30	60	90	100

Ordena.

Comienza por el menor : ② 30, 20, 60, 50, 10  
80, 60, 70, 40, 90

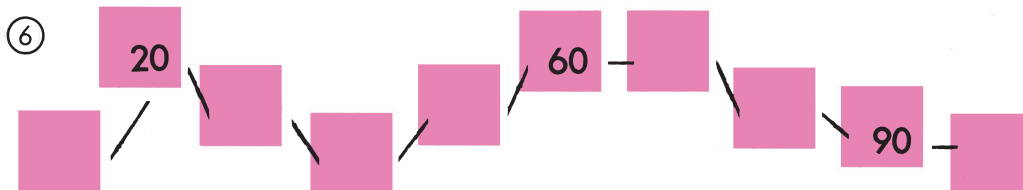
Comienza por el mayor : ③ 40, 70, 80, 50, 20  
10, 90, 30, 60, 40

Cuenta :

④ 10, 20, 30, ..., 100  
40, 50, 60, ..., 100

⑤ 100, 90, 80, ..., 10  
70, 60, 50, ..., 10

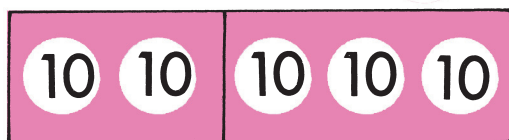
Completa :



100 ¢ = \$1 Cien centavos es igual a un peso.



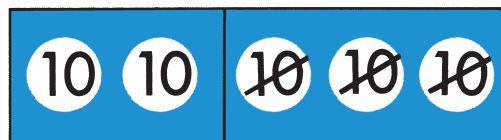
$20 + 30$



$20 + 30 = 50$

porque  $2 + 3 = 5$

$50 - 30$



$50 - 30 = 20$

porque  $5 - 3 = 2$

① $50 + 30$	$70 + 20$	$20 + 50$	$60 + 10$
$5 + 3$	$7 + 2$	$2 + 5$	$6 + 1$

② $60 - 40$	$70 - 30$	$90 - 40$	$80 - 20$
$6 - 4$	$7 - 3$	$9 - 4$	$8 - 2$

③ $30 + 20$	$60 + 20$	④ $70 - 40$	$80 - 30$
$50 + 40$	$40 + 40$	$90 - 60$	$90 - 50$
$30 + 50$	$30 + 60$	$60 - 50$	$50 - 40$

$40 - 30 = 10$	⑤ $90 - 30$	$60 - 30$	$80 - 50$
$10 + 30 = 40$	$70 - 50$	$90 - 70$	$30 - 20$
	$80 - 70$	$70 - 20$	$100 - 40$

⑥ $12 + 2$	⑦ $16 - 6$	⑧ Adiciona 70 y 30.
$14 + 3$	$20 - 2$	Sustraer 50 de 90.
$18 + 2$	$19 - 8$	

①

$a$	$a + 30$
30	
20	
60	
40	

②

$e$	$e - 30$
60	
90	
70	
100	



③  $40 + x = 70$

$50 + x = 90$

$20 + x = 80$

$30 + x = 60$

④  $70 - x = 50$

$60 - x = 10$

$80 - x = 40$

$50 - x = 20$

⑤  $30 + x = 50$

$40 - x = 30$

$60 + x = 90$

$100 - x = 60$

70	<	90			
70	+	20	=	90	
80	>	60			
80	=	60	+	20	

Compara :

⑥

20	60	80	20	40	90
40	70	50	10	20	50
60	30	30	70	100	30

⑦ Jorge compra 12 libretas. Julia compra 5 libretas más que Jorge. ¿Cuántas libretas tiene Julia?

⑧ Héctor tiene 40 naranjas. Si le da 20 naranjas a Gisela, ¿cuántas naranjas le quedan a Héctor?

⑨ Mercedes tiene en su álbum 50 sellos y su hermana le regala 30 sellos. ¿Cuántos sellos tiene Mercedes ahora?



1 m

Un metro

$$1 \text{ m} = 100 \text{ cm}$$

- ① Mide con una cinta métrica o un cordel de 1 m de longitud :

- el largo y el ancho de tu habitación,
- el largo de la tendedera.

- ② Estima si la puerta de tu aula es :

- más ancha o más estrecha,
- más larga o más corta que 1 m . Mídela después.

- ③ Comprueba cuántos pasos tú necesitas dar para medir un segmento de 10 m de longitud.

- ④ El cordel del papalote de Hugo es de 15 m de largo y le añade un pedazo de 5 m de largo. Entonces, ¿de qué largo es el cordel ?

⑤  $16 \text{ m} + 2 \text{ m}$

$14 \text{ m} + 3 \text{ m}$

$12 \text{ m} + 4 \text{ m}$

$13 \text{ m} + 7 \text{ m}$

⑥  $18 \text{ m} - 8 \text{ m}$

$17 \text{ m} - 4 \text{ m}$

$16 \text{ m} - 5 \text{ m}$

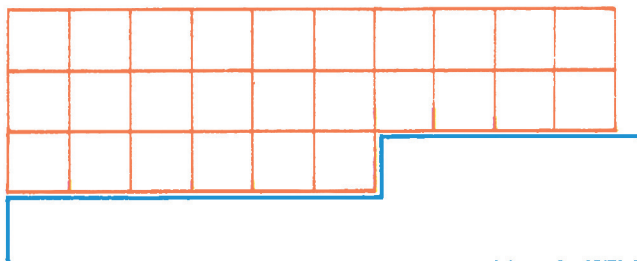
$20 \text{ m} - 2 \text{ m}$

⑦  $20 \text{ m} + 60 \text{ m}$

$40 \text{ m} + 20 \text{ m}$

$90 \text{ m} - 50 \text{ m}$

$100 \text{ m} - 80 \text{ m}$



$$\begin{array}{|c|c|c|c|c|c|c|c|} \hline 20 & + & 6 & = & 26 & & & \\ \hline & & 26 & = & 20 & + & 6 & \\ \hline \end{array}$$

$$2 \cdot 10 + 6 = 26$$

Indica en el cuadrado de  
100 cuadraditos.

① 34, 47, 29, 76, 67

Lee y escribe:

② 28, 82, 74, 47, 66

$$30 + 6 = 36$$

$$47 = 40 + 7$$

③  $30 + 5$

$20 + 9$

$50 + 4$

④

⑤

⑥

$60 + 3$

$80 + 1$

$90 + 5$

38

64

97

$40 + 7$

$10 + 8$

$20 + 3$

45

37

43

$70 + 2$

$90 + 6$

$70 + 9$

84

56

65

$50 + 8$

$60 + 7$

$40 + 2$

71

83

86

① Coloca con fichas : ② Representa en una tabla :

10	1
2	3
3	4
4	1

10	1	10	1	10	10
10	1	10	1	10	10
10	1	10	1	1	1



10	1	
4	7	$47 = 4 \cdot 10 + 7$
6	2	$62 = 6 \cdot 10 + 2$
5	8	$58 = 5 \cdot 10 + 8$



Representa en una tabla de posiciones :

③	91	73
	89	36

④	57	72
	96	41

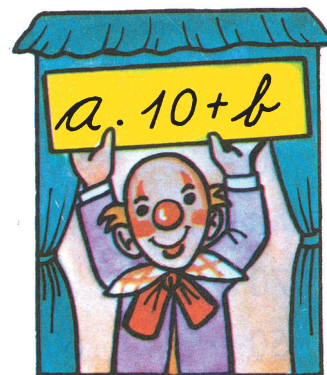
⑤	26	85
	93	48

$$6 \cdot 10 + 9$$

$$6 \cdot 10 + 9 = 69$$

⑥  $7 \cdot 10 + 6$   
 $9 \cdot 10 + 2$   
 $3 \cdot 10 + 1$   
 $6 \cdot 10 + 4$

⑦  $1 \cdot 10 + 7$   
 $5 \cdot 10 + 6$   
 $8 \cdot 10 + 3$   
 $2 \cdot 10 + 8$





①	$b$	$30 + b$
	5	
	2	
	4	
	7	
	1	

②	$b$	$80 + b$
	6	
	5	
	3	
	8	
	4	

③	$a$	$a \cdot 10$
	2	
	6	
	9	
	3	
	1	

④	$a$	$a \cdot 10$
	4	
	7	
	5	
	8	
	6	

⑤  $2 \cdot 10 + 6 = 26$   
 $6 \cdot 10 + 5$   
 $9 \cdot 10 + 3$   
 $3 \cdot 10 + 8$

$D$	$U$
2	6

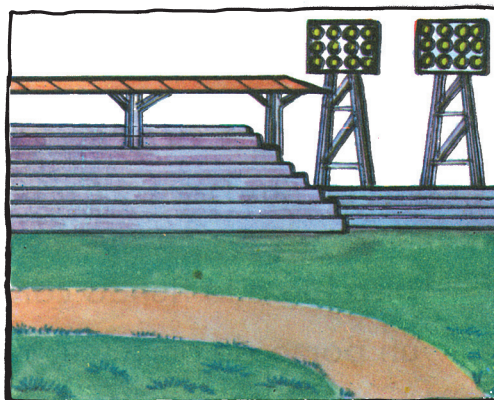
3	0	+	x	=	3	7
			x	=		7

porque  $30 + 7 = 37$

⑥  $40 + x = 45$   
 $20 + x = 29$   
 $70 + x = 77$   
 $50 + x = 52$

⑦  $60 + x = 68$   
 $10 + x = 16$   
 $30 + x = 34$   
 $80 + x = 89$

- ⑧ En el área deportiva hay marcadas dos pistas de carreras. Una es de 60 m de largo y la otra 5 m más larga. ¿Qué largo tiene la segunda pista?



Con el dinero se  
puede pagar de  
formas diferentes



20 ¢

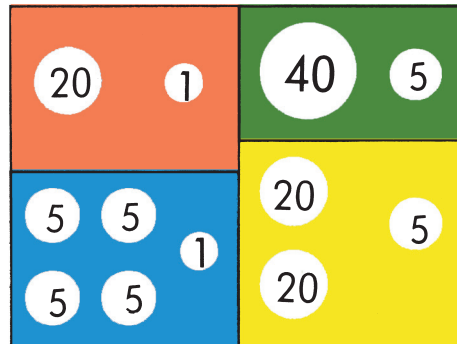


40 ¢

Ejemplo

21 ¢

45 ¢



- ① Ofrece diferentes posibilidades de cómo tú puedes pagar con monedas el importe siguiente:

17 ¢, 28 ¢, 45 ¢, 50 ¢, 32 ¢, 70 ¢, \$1.



Pedro compra un sello valorado en 20 ¢, otro sello de un valor de 5 ¢.

¿ Cuánto dinero tuvo que pagar ?

$$20 + 5 = 25$$

Pedro tuvo que pagar 25 ¢.

- ② Doris tiene \$ 40 ahorrados. Gisela tiene ahorrados \$ 3 más que Doris. ¿ Cuánto dinero tiene ahorrado Gisela ?
- ③ Luisa fue a la tienda con \$ 30. Si gastó \$ 10 en un pomo de perfume, ¿ cuánto dinero le tienen que devolver a Luisa ?



$0 < 1$	$10 < 11$	$20 < 21$	$30 < 31$
$1 < 2$	$11 < 12$	$21 < 22$	$31 < 32$
$2 < 3$	$12 < 13$	$22 < 23$	$32 < 33$
.	.	.	.
.	.	.	.
.	.	.	.
$9 < 10$	$19 < 20$	$29 < 30$	$39 < 40$

Compara :

① 40	41	② 60	61	③ 70	71	④ 90	91
41	42	61	62	71	72	91	92
42	43	62	63	72	73	92	93
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.
49	50	69	70	79	80	99	100

Cuenta :

- ① desde 21 hasta 30                      ② desde 39 hasta 30  
desde 81 hasta 90                      desde 59 hasta 50
- ③ desde 25 hasta 34                      ④ desde 79 hasta 70  
desde 17 hasta 26                      desde 91 hasta 100

						35									
34	<	35						35	<	36					

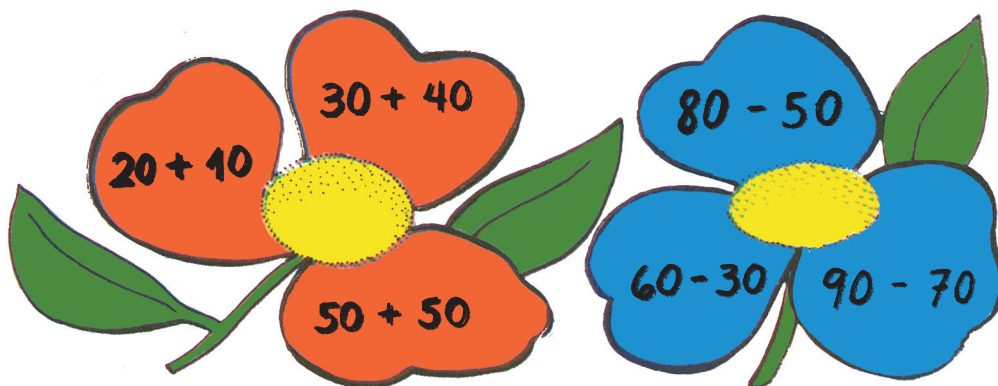
Determina el sucesor de :

- ⑤ 5, 25, 35, 55, 75                      ⑥ 43, 83, 73, 23, 53
- ⑦ 27, 83, 65, 72, 59                      ⑧ 39, 59, 79, 99, 89

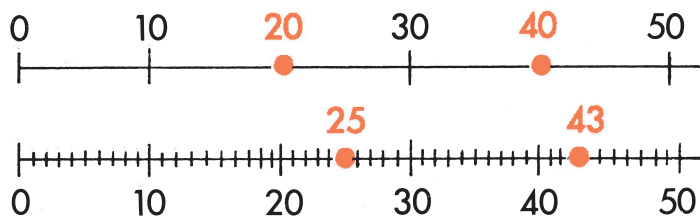
Determina el antecesor de :

- ⑨ 7, 17, 27, 67, 57                      ⑩ 1, 11, 21, 51, 41
- ⑪ 53, 84, 26, 37, 48                      ⑫ 80, 70, 90, 30, 40

⑬ Calcula :



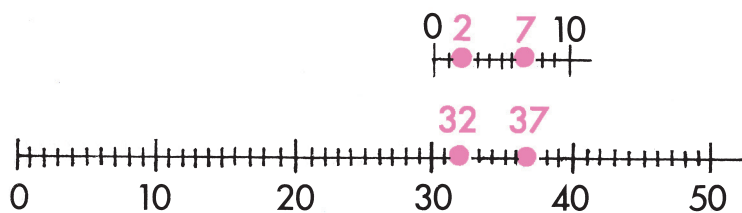
## Nosotros comparamos



$$\begin{array}{|c|c|c|} \hline 2 & 7 & & & 7 & 5 \\ \hline 2 & 0 & & & 7 & 0 \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|} \hline 8 & 3 & & & 6 & 9 \\ \hline 8 & 0 & & & 6 & 0 \\ \hline \end{array}$$

- ① 30 40      ② 90 50      ③ 37 16  
 32 42      94 56      29 44  
 38 48      98 53      95 87



$$\begin{array}{|c|c|c|} \hline 5 & 4 & & & 5 & 8 \\ \hline & 4 & & & & 8 \\ \hline \end{array}$$

$$\begin{array}{|c|c|c|} \hline 4 & 6 & & & 4 & 1 \\ \hline & 6 & & & & 1 \\ \hline \end{array}$$

### 25 con 43

$$20 < 40$$

$$25 < 43$$

$$40 > 20$$

$$43 > 25$$

### 32 con 37

$$2 < 7$$

$$32 < 37$$

$$7 > 2$$

$$37 > 32$$

Compara :

- ④ 6 9      ⑤ 8 4      ⑥ 46 43      ⑦ 23 57  
 16 19      38 34      72 74      79 49  
 26 29      78 74      55 59      91 93



Compara :

① 28	24	② 52	18	③ 48	43	④ 42	72
93	95	14	17	16	85	83	53
39	36	28	62	72	78	35	65
14	17	87	81	34	26	74	44

Ordena.

Comienza por el menor :

⑤ 73, 78, 72, 75, 71      ⑥ 28, 18, 78, 98, 48

⑦ 58, 56, 17, 12, 52      ⑧ 70, 75, 30, 35, 50

Comienza por el mayor :

⑨ 42, 45, 41, 48, 43      ⑩ 56, 96, 66, 26, 16

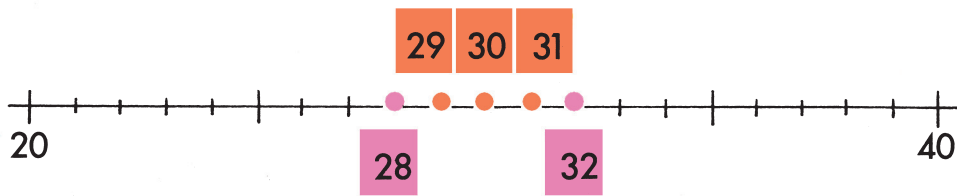
⑪ 35, 74, 79, 24, 28      ⑫ 41, 72, 53, 34, 85

⑬ Miriam y Raúl construyen cadenetas.

Raúl dice: "Mi cadeneta es de 1 m de largo", Miriam afirma: "yo estoy más adelantada pues mi cadeneta es ya de 100 cm de largo".

¿ Tiene razón Miriam ?





Entre 28 y 32  
están 29, 30, 31

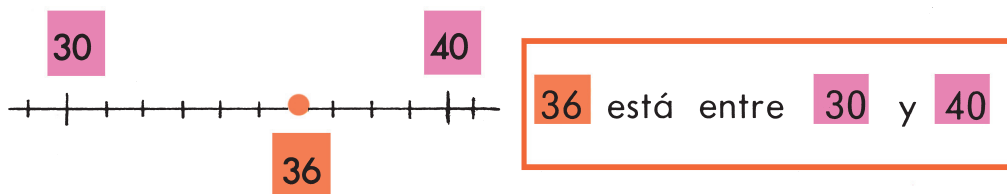
Determina qué números están entre:

① 34 y 37  
41 y 45

② 86 y 89  
53 y 58

③ 70 y 76  
94 y 100

④ 18 y 23  
69 y 75

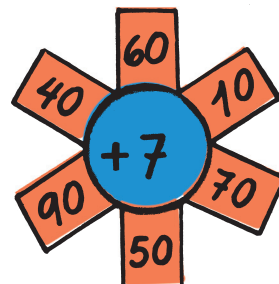
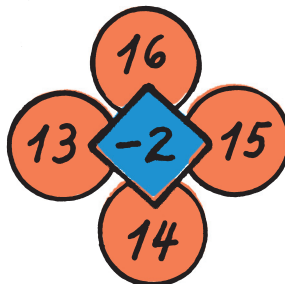
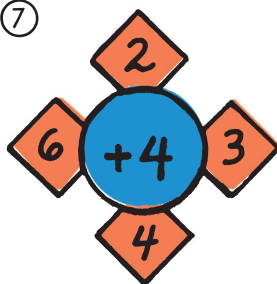


¿ Entre que múltiplos  
de 10 están los  
números siguientes ?

⑤ 48 22  
73 88

⑥ 56 17 19  
65 34 91

⑦



## Lo que ya aprendimos

0, 1, 2, 3, 4, ..., 98, 99, 100 son números naturales.  
Los números naturales están ordenados.

Cuenta :

- ① desde 7 hasta 16                      ② desde 48 hasta 57  
③ desde 12 hasta 3                      ④ desde 45 hasta 36

Cada número natural (menos el 0) tiene un	<div style="border: 1px solid black; padding: 2px 10px;">63</div>	Cada número natural tiene un
<b>antecesor</b>	<div style="border: 1px solid black; padding: 2px 10px;">62</div> < 63 < <div style="border: 1px solid black; padding: 2px 10px;">64</div>	<b>sucesor</b>

Determina el antecesor y el sucesor de :

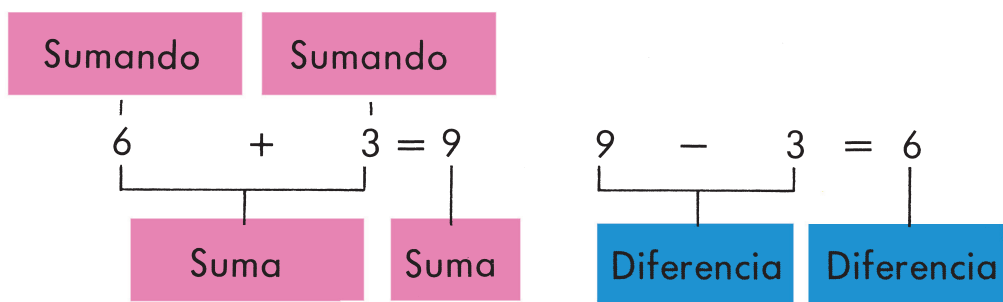
- ⑤ 14, 65, 48, 58, 73                      ⑥ 21, 49, 71, 59, 99

Los números naturales	15 = 15
los podemos	14 < 17, porque $14 + 3 = 17$
<b>comparar</b>	16 > 12, porque $16 = 12 + 4$

Compara :

- |          |           |           |           |
|----------|-----------|-----------|-----------|
| ⑦ 6    9 | ⑧ 30   70 | ⑨ 35   37 | ⑩ 72   27 |
| 7    5   | 80   20   | 49   41   | 38   83   |

120



- |           |           |           |           |
|-----------|-----------|-----------|-----------|
| ① $4 + 6$ | ② $7 - 4$ | ③ $8 - 3$ | ④ $4 - 3$ |
| $9 - 7$   | $6 + 3$   | $6 - 4$   | $8 + 2$   |
| $8 - 3$   | $5 + 4$   | $4 + 4$   | $9 - 7$   |
| $8 + 1$   | $6 - 6$   | $8 - 5$   | $5 + 5$   |

$16 + 3$	$17 - 4$	$50 + 20$	$80 - 30$
$6 + 3 = 9$	$7 - 4 = 3$	$5 + 2 = 7$	$8 - 3 = 5$
$16 + 3 = 19$	$17 - 4 = 13$	$50 + 20 = 70$	$80 - 30 = 50$

- |            |            |             |             |
|------------|------------|-------------|-------------|
| ⑤ $14 + 3$ | ⑥ $13 - 2$ | ⑦ $90 - 40$ | ⑧ $30 + 20$ |
| $15 + 4$   | $20 - 4$   | $40 + 30$   | $60 - 30$   |
| $17 + 3$   | $18 - 5$   | $60 - 20$   | $10 + 40$   |
| $12 + 5$   | $19 - 3$   | $30 + 50$   | $50 - 50$   |

⑨



Los sumandos pueden intercambiarse. La suma es igual.

$$5 + 2 = 7 \longrightarrow 2 + 5 = 7$$

De las igualdades de adición podemos formar igualdades de sustracción.

$$5 + 2 = 7 \begin{array}{l} \longrightarrow 7 - 2 = 5 \\ \searrow 7 - 5 = 2 \end{array}$$

Soluciona los ejercicios siguientes. Forma otras tres igualdades con los mismos números.

①  $2 + 3$   
 $3 + 6$

②  $9 + 1$   
 $7 + 2$

③  $30 + 20$   
 $70 + 30$

④  $40 + 20$   
 $80 + 20$

Calcula con 0

⑤  $4 + 0$   
 $17 + 0$   
 $0 + 12$

$7 - 0$   
 $4 - 4$   
 $18 - 18$

$40 + 0$   
 $50 - 50$   
 $100 - 0$

Los sumandos pueden asociarse de diferentes maneras. La suma es igual.

$$\begin{array}{cc} \underbrace{4 + 3} + 2 & 4 + \underbrace{3 + 2} \\ \hline 7 + 2 & 4 + 5 \\ \hline 9 & 9 \end{array}$$

⑥  $4 + 2 + 3$

$5 + 1 + 4$

⑦  $12 + 5 + 2$

$10 + 3 + 4$



① $3 + 6$	② $8 - 5$	③ $7 + 3$	④ $10 - 5$
$2 + 5$	$7 - 6$	$2 + 8$	$10 - 2$
$4 + 0$	$9 - 7$	$6 + 4$	$10 - 6$
$2 + 8$	$5 - 0$	$9 + 1$	$10 - 1$

⑤ $14 + 2$	⑥ $16 + 4$	⑦ $18 - 3$	⑧ $20 - 3$
$18 + 1$	$12 + 8$	$17 - 4$	$20 - 5$
$13 + 4$	$17 + 3$	$19 - 6$	$20 - 6$
$12 + 7$	$14 + 6$	$16 - 5$	$20 - 8$

⑨ Hay 10 niños en un parque. Si 8 son varones,  
¿cuántas niñas hay?

⑩ $30 + 7$	⑪ $12 + 4$	⑫ $40 + 30$	⑬ $90 - 10$
$50 + 3$	$9 - 5$	$30 + 40$	$80 - 20$
$80 + 6$	$20 + 40$	$50 + 20$	$70 - 30$

⑭

$a$	$e$	$a + e$
3	6	
12	7	
5	12	
70	20	

⑮

$m$	$n$	$m - n$
8	7	
14	2	
20	6	
80	30	

⑯ Norma tiene 70¢. Si gasta 40¢ en la compra de unas libretas, ¿cuánto dinero le queda a Norma?

① $a < 3$	② $4 > a$	③ $a < 4$	④ $6 > a$
$e < 2$	$2 > i$	$5 > i$	$u < 8$
$i < 4$	$3 > u$	$e < 6$	$17 > i$

⑤ A una excursión van 60 pioneros y 7 maestros.  
¿Cuántos asientos hay que reservar en el tren?

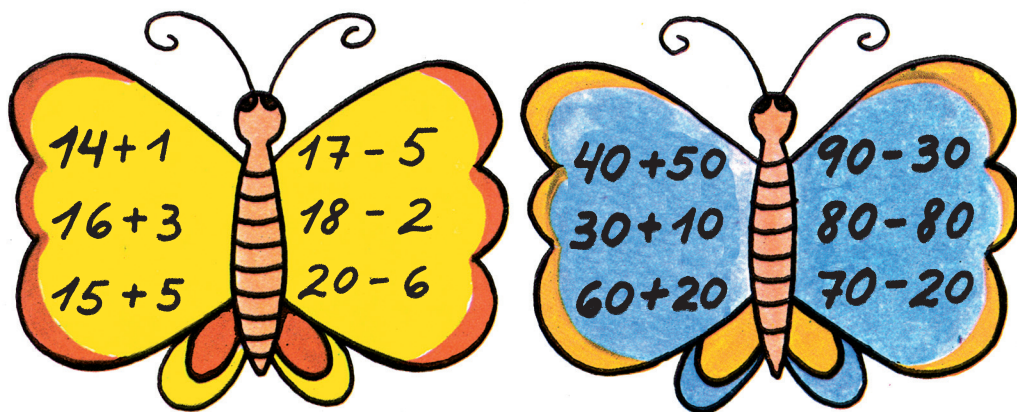
⑥ En un campamento se encuentran 70 pioneros. De ellos  
40 son niñas. ¿Cuántos niños hay en el campamento?

⑦ $4 + x = 7$	⑧ $8 - x = 4$	⑨ $3 + x = 7$
$6 + x = 10$	$5 - x = 5$	$12 + x = 20$
$14 + x = 17$	$19 - x = 13$	$16 - x = 4$
$20 + x = 80$	$90 - x = 40$	$50 - x = 20$

Analiza cómo se pueden resolver de forma más fácil los  
siguientes ejercicios. Calcula.

⑩ $14 + 5$	⑪ $4 + 13$	⑫ $60 + 3$	⑬ $50 + 7$
$6 + 12$	$12 + 4$	$8 + 40$	$2 + 10$

⑭



**Longitud**

centímetro metro

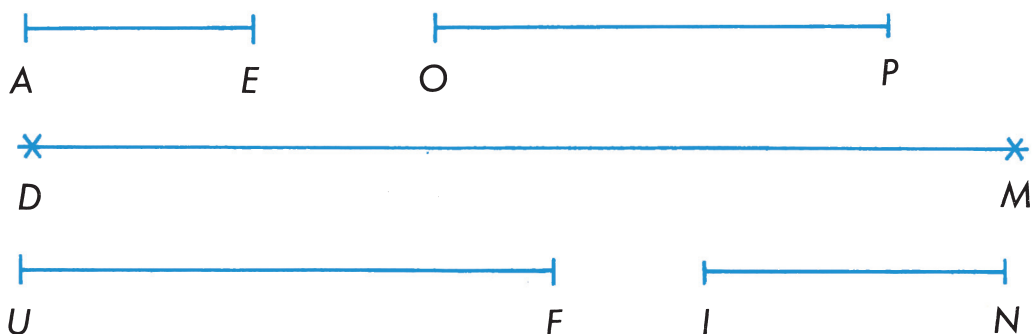
$100 \text{ cm} = 1 \text{ m}$

**Dinero**

centavos pesos

$100 \text{ ¢} = \$1$

① Mide la longitud de los segmentos siguientes :



Indica en la regla de pizarra o en una cinta métrica las longitudes siguientes :

② 4 cm, 40 cm, 70 cm, 20 cm, 100 cm

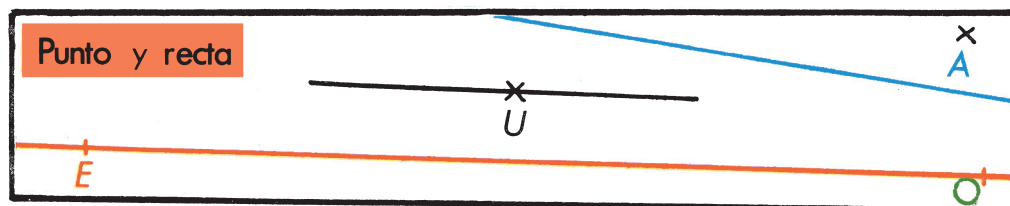
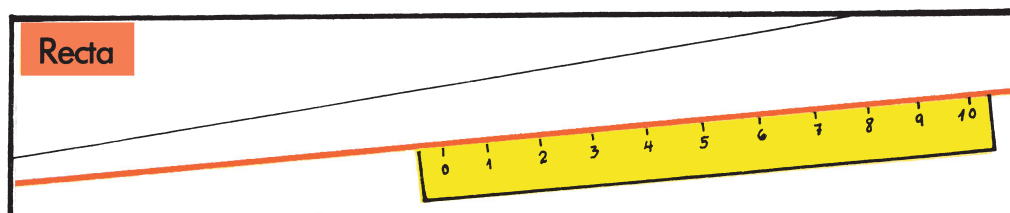
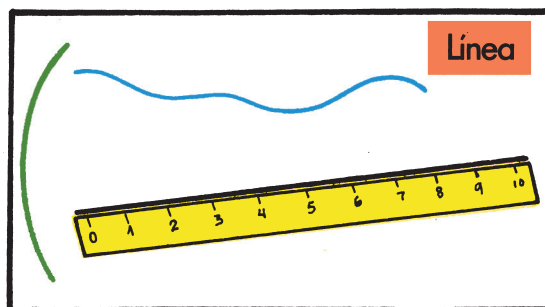
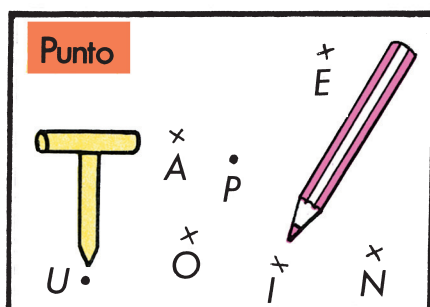
③ 17 cm, 71 cm, 94 cm, 84 cm, 1 m

Traza segmentos con las longitudes siguientes :

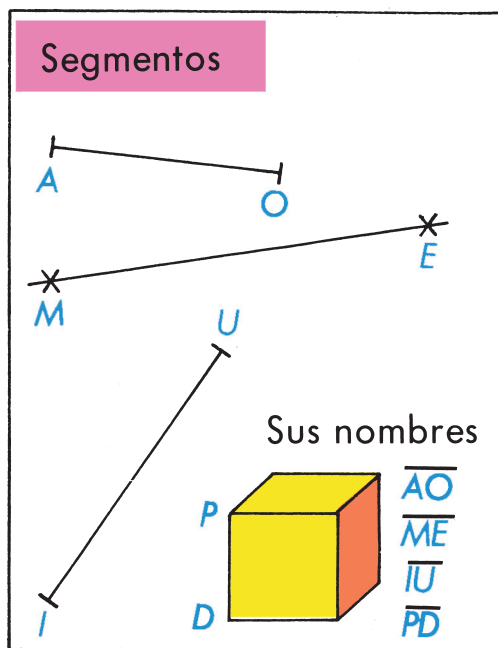
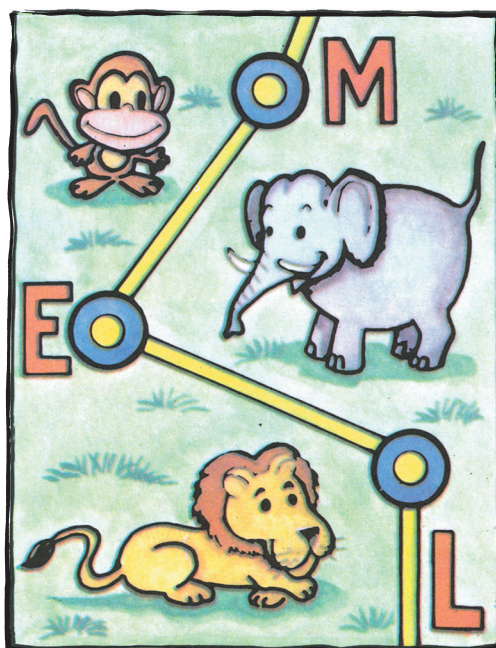
④ 6 cm, 2 cm, 13 cm, 5 cm, 1 cm

⑤  $30 \text{ cm} + 40 \text{ cm}$  $60 \text{ cm} - 20 \text{ cm}$ ⑥  $5 \text{ m} + 4 \text{ m}$  $14 \text{ m} - 3 \text{ m}$ ⑦  $20 \text{ ¢} + 5 \text{ ¢}$  $70 \text{ ¢} + 4 \text{ ¢}$ ⑧  $\$16 - \$6$  $\$20 - \$8$ ⑨  $50 \text{ cm} + 50 \text{ cm}$  $50 \text{ m} - 20 \text{ m}$ ⑩  $\$19 - \$7$  $90 \text{ ¢} + 8 \text{ ¢}$

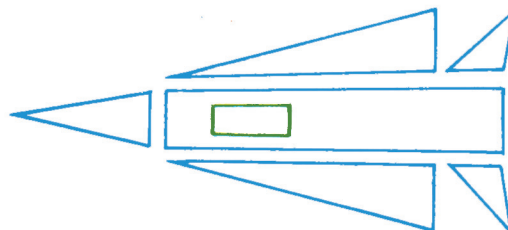
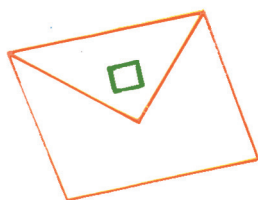
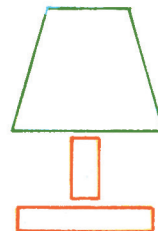
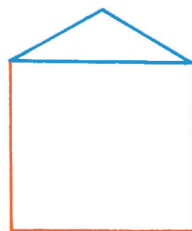
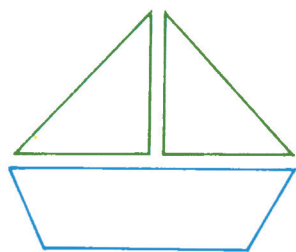
## Geometría



① Traza 3 rectas.



- ① Indica segmentos en el aula.
- ② Traza 3 segmentos  $\overline{AM}$ ,  $\overline{EF}$ ,  $\overline{NU}$ .
- ③ Señala segmentos en estas figuras.





Comparación de segmentos

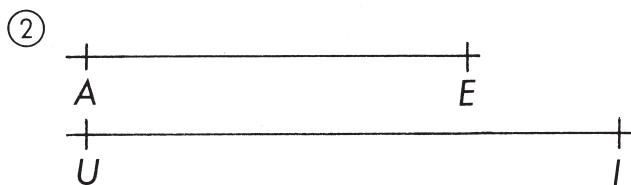
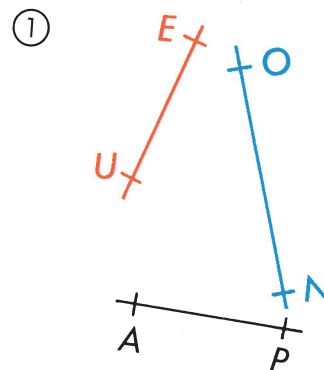
$\overline{EA}$  es más corto que  $\overline{OI}$

$\overline{OI}$  es más largo que  $\overline{MU}$

$\overline{EA}$  y  $\overline{MU}$  tienen igual longitud



Compara :



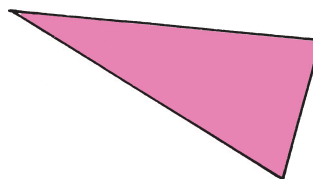
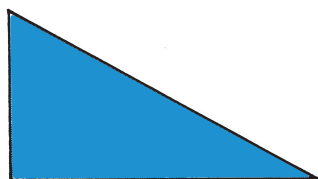
- ④ Traza un segmento  $\overline{AO}$ . Traza un segmento  $\overline{EU}$  más largo que  $\overline{AO}$ .

## Triángulo

- ① Busca triángulos en las señales del tránsito.

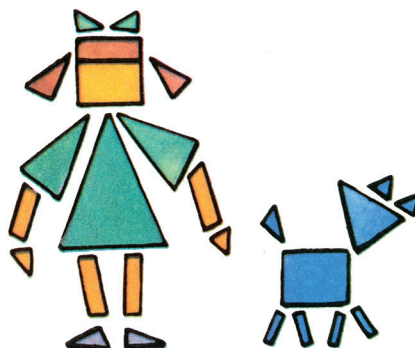


- ② Forma con varillas 2 triángulos.



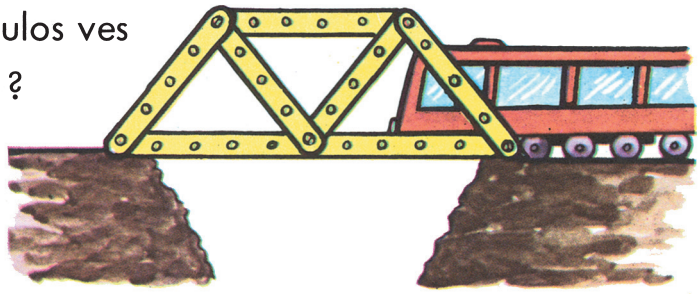
- ③ Traza con la plantilla 3 triángulos.

- ④ Señala triángulos en las figuras siguientes :

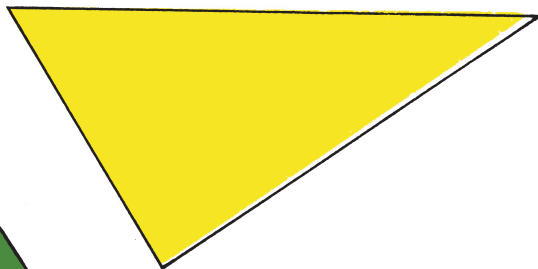
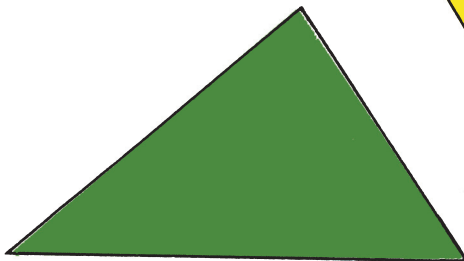


- ⑤ Traza 4 triángulos en papel de color. Recórtalos y pégalos en tu libreta.

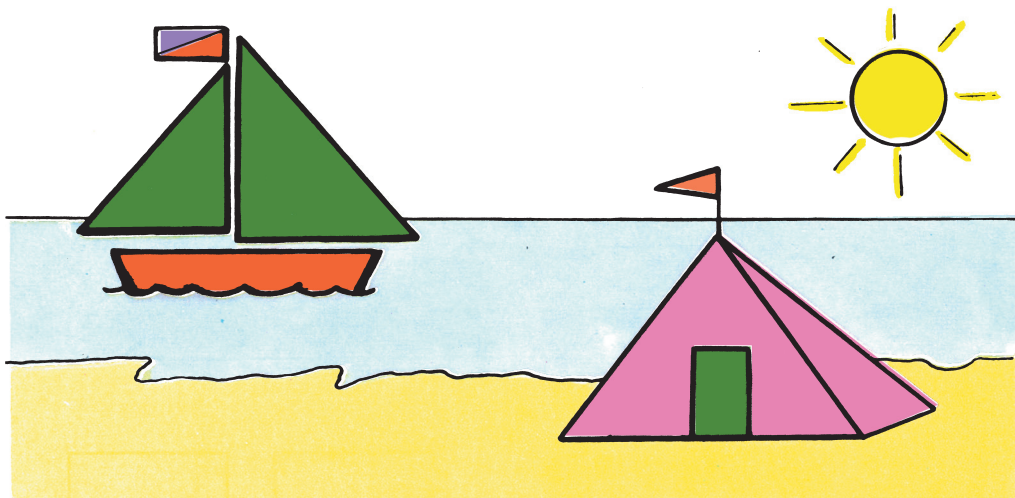
- ① ¿Cuántos triángulos ves en este puente?



- ② Mide los lados de estos triángulos.



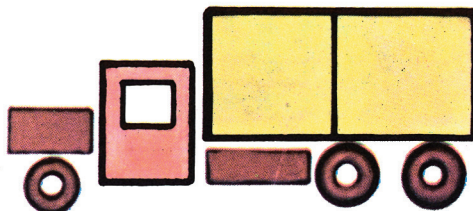
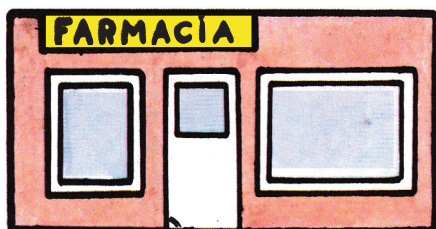
- ③ Observa la ilustración. Señala triángulos.



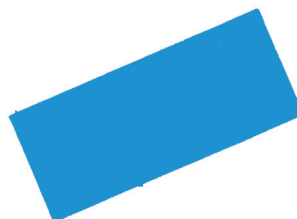
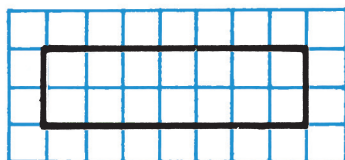
- ④ Traza 2 segmentos  $\overline{AO}$ ,  $\overline{IU}$ .

## Rectángulo. Cuadrado

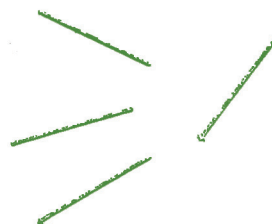
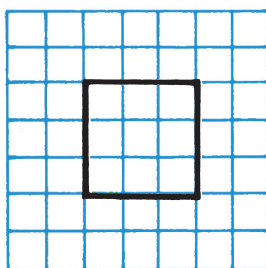
- ① Señala rectángulos en estas figuras.



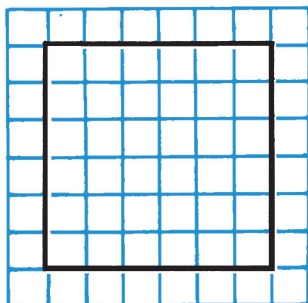
- ② Forma un rectángulo con varillas sobre papel cuadriculado.
- ③ Traza 3 rectángulos con la plantilla.
- ④ Traza 2 rectángulos en papel cuadriculado.



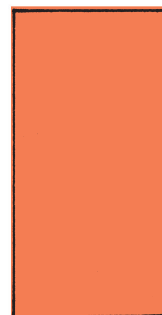
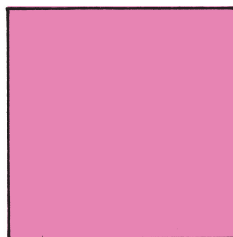
- ⑤ Forma un cuadrado con varillas sobre papel cuadriculado.



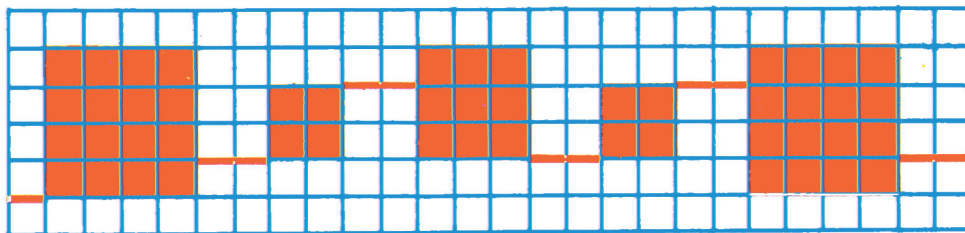
- ① Traza 2 cuadrados en papel cuadriculado.



- ② Traza 3 cuadrados con la plantilla.
- ③ Mide la longitud de los lados de estos rectángulos.  
Señala el cuadrado.



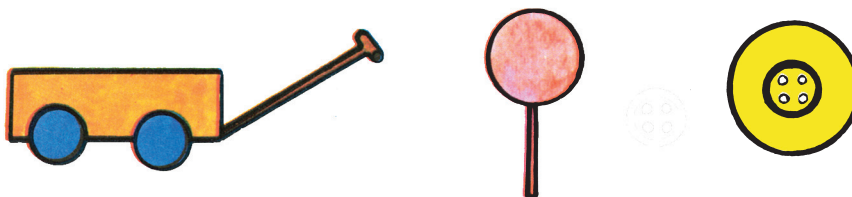
- ④ Dibuja con tu plantilla, rectángulos en papel de color.  
Recórtalos y forma figuras con ellos.
- ⑤ Dibuja figuras con cuadrados y segmentos.





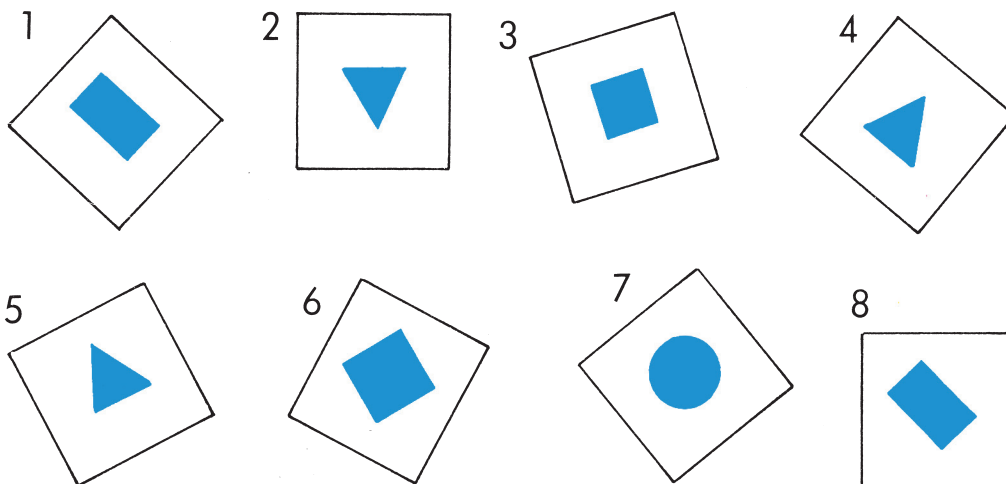
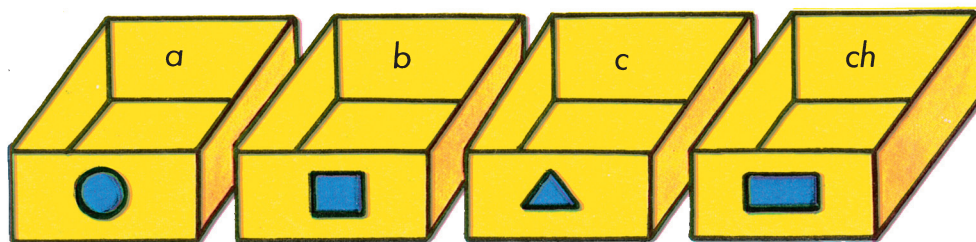
## Círculo




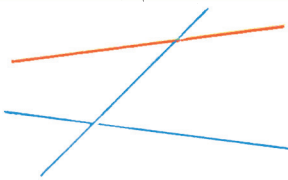















① Señala círculos en estas figuras.



② Traza con la plantilla 3 círculos.

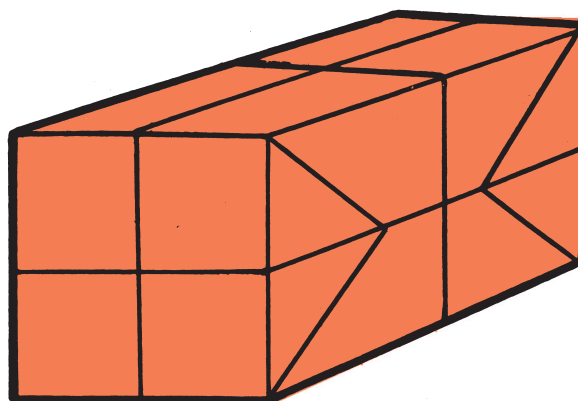
① Coloca dentro de la caja que le corresponde.



Punto	Recta	Segmento
 A  E  U		 M N  E L
Triángulo	Rectángulo	
  	 	Cuadrado
		 
Círculo	Cubo	Esfera
 	 	 

Indica en esta figura :

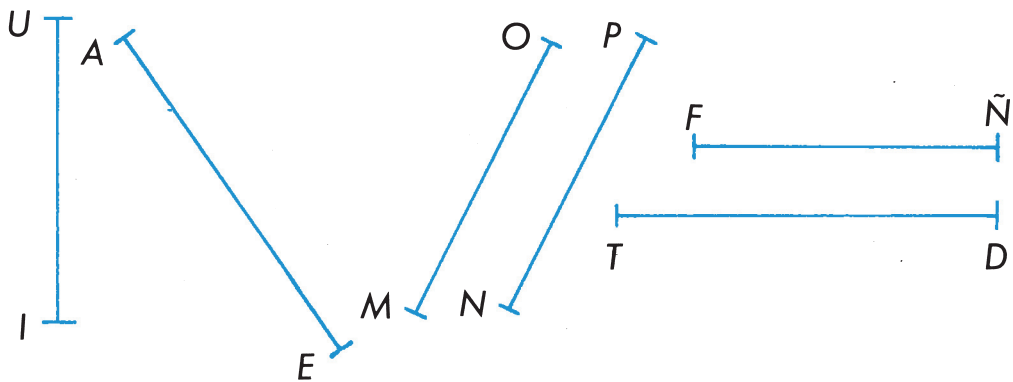
- ① Puntos
- ② Segmentos
- ③ Triángulos
- ④ Rectángulos
- ⑤ Cuadrados



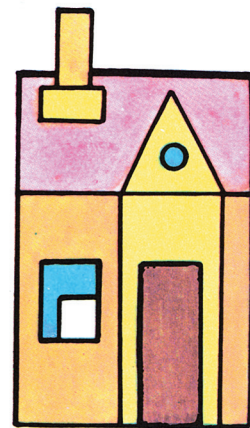
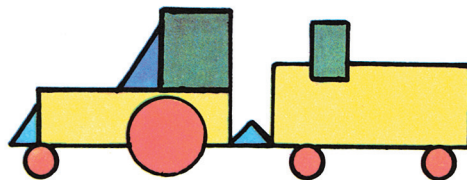
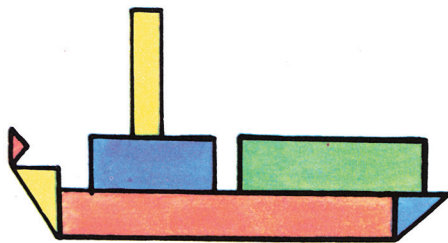
- ⑥ Dibuja con tu plantilla rectángulos, cuadrados, triángulos y círculos. Píntalos, recórtalos y pégalos.

Traza :

- ① un segmento  $\overline{EA}$ ,
- ② un segmento  $\overline{IU}$  de igual longitud que  $\overline{EA}$ ,
- ③ un segmento  $\overline{MI}$  más corto que  $\overline{EA}$ ,
- ④ un segmento  $\overline{OU}$  más largo que  $\overline{EA}$ .
- ⑤ Compara :



- ⑥ ¿ Cuántos triángulos, rectángulos, cuadrados y círculos se deben recortar en papel de colores para poder formar las figuras dadas ?



## Índice

Comparación de conjuntos .....	5
Los números naturales desde 1 hasta 10 .....	11
Adición y sustracción hasta 10 .....	44
Los números desde 0 hasta 20 .....	83
Adición y sustracción hasta 20 .....	90
Los números desde 0 hasta 100 .....	98
<i>Multiplicar</i> .....	98
<i>Los múltiplos de 10</i> .....	102
Lo que ya aprendimos .....	120
Geometría .....	126

