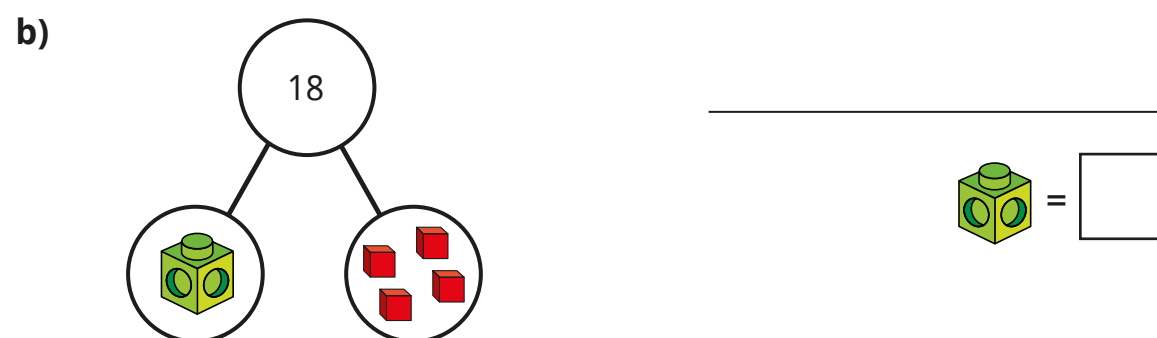
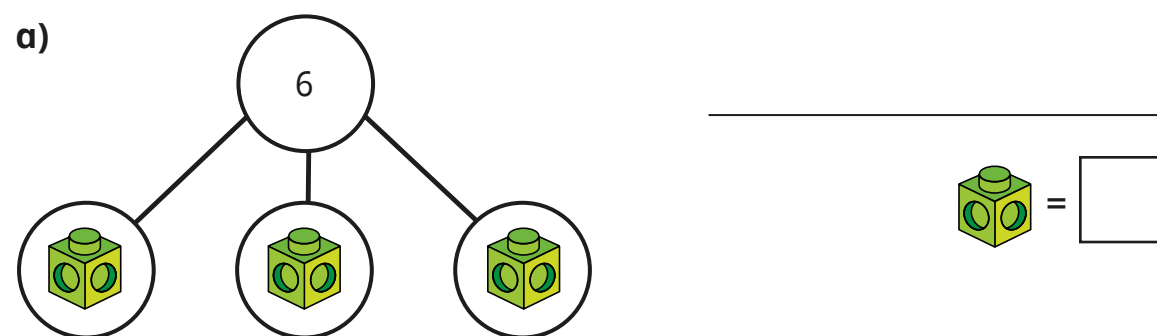


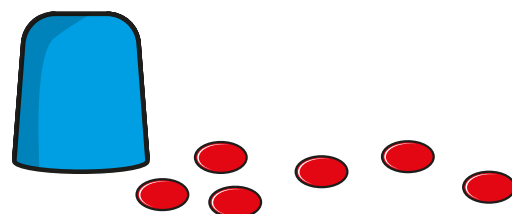
Solve 1-step equations



- 1 Write an equation for each part-whole model.
Work out the value of the linking cube in each equation.



- 2 There are some counters under the cup.



There are 10 counters in total.

- a) If c is the number of counters under the cup, explain why
 $c + 6 = 10$

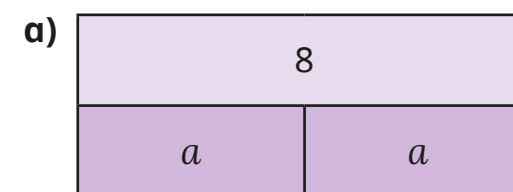
- b) Work out the value of c .

$$c = \square$$

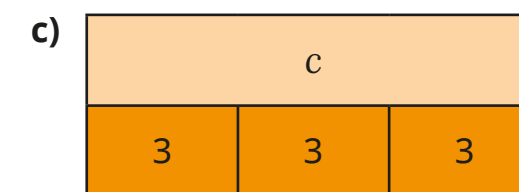
- c) How many counters are there under the cup?

$$\square$$

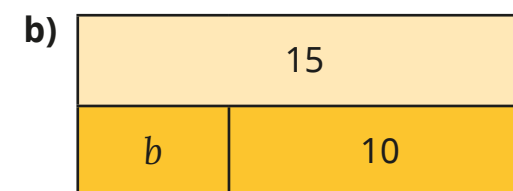
- 3 Write algebraic equations to represent the bar models.
Find the value of the letter in each one.



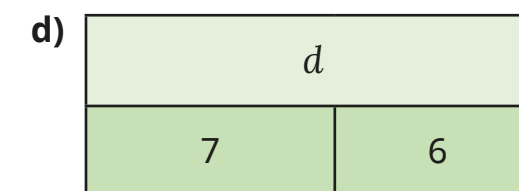
$$a = \square$$



$$c = \square$$



$$b = \square$$



$$d = \square$$

- 4 Nijah is solving the equation $x - 8 = 20$

$$\begin{aligned} x - 8 &= 20 \\ x &= 20 - 8 \\ x &= 12 \end{aligned}$$

What mistake has Nijah made?

5 Solve the equations.

a) $x + 7 = 20$

$x =$

b) $10y = 80$

$y =$

c) $4m = 22$

$m =$

d) $g - 3 = 15$

$g =$

e) $32 = t - 5$

$t =$

f) $2u = 3$

$u =$

6 Max thinks of a number.

He subtracts 5 from his number.

He ends up with 10

a) Write an algebraic equation to represent Max's problem.

b) Solve the equation to work out his number.

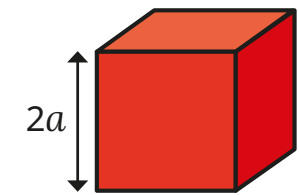
7 Dexter builds a tower.

Each block is $2a$ high.

He uses 7 blocks.

The total height of his tower is 42 cm.

Write an equation to represent the height of Dexter's tower and find the value of a .



$a =$ cm

8 Work out the value of each shape.

Write the equations that you solved to find the value of each shape.

				= 40
				= 20
				= 32

=

=

=

Work out the missing total of each row and column.

Compare answers with a partner.

