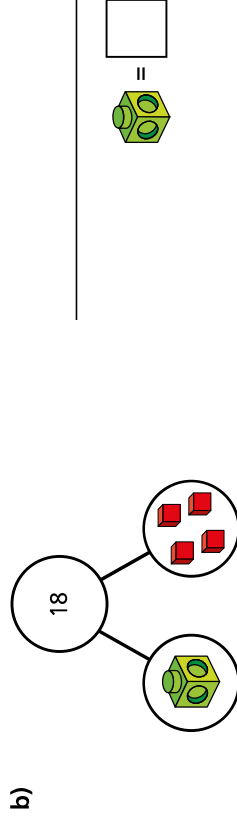
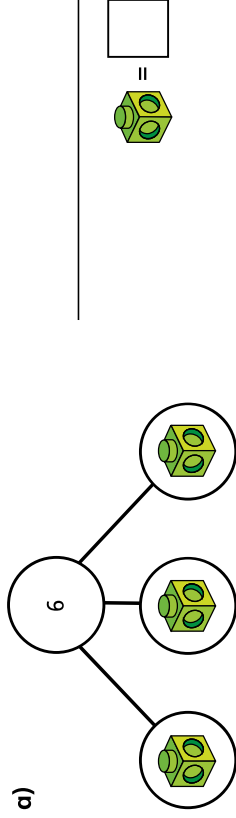


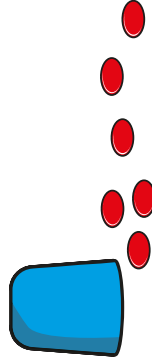
Solve simple one-step equations

1 Write an equation for each part-whole model.

Work out the value of the multilink 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 .

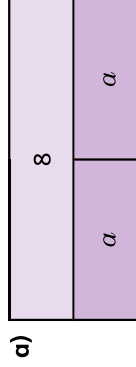
$$c = \text{ } \quad \text{ } =$$

c) How many counters are under the cup?

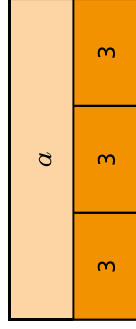
$$\text{ } =$$

3 Write algebraic equations to represent the bar models.

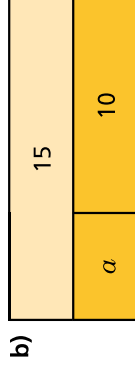
Find the value of a in each one.



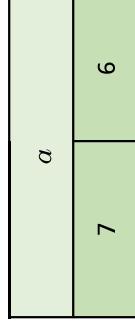
$$a = \text{ } \quad \text{ } =$$



$$a = \text{ } \quad \text{ } =$$



$$a = \text{ } \quad \text{ } =$$



$$a = \text{ } \quad \text{ } =$$

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) $x + 7 = 20$

$x =$

d) $g - 3 = 15$

$g =$

b) $10y = 80$

$y =$

e) $32 = t - 5$

$t =$

c) $4m = 22$

$m =$

f) $\frac{u}{6} = 3$

$u =$

6

Filip thinks of a number.

He subtracts 5 from his number.

He ends up with 10

Write an algebraic equation to represent Filip's problem.

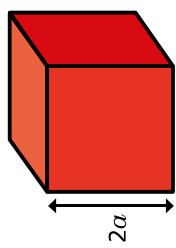
Solve the equation to work out his number.

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.

