## 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.

b)


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) How many counters are under the cup?


Write algebraic equations to represent the bar models.
Find the value of $a$ in each one.
a)

| 8 |  |
| :---: | :---: |
| $a$ | $a$ |

c)

| $a$ |  |  |
| :--- | :--- | :--- |
| 3 | 3 | 3 |



b)

d)


$a=$

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?
$\qquad$
$\qquad$

Solve the equations.
a) $x+7=20$
d) $g-3=15$

b) $10 y=80$

e) $32=t-5$


c) $4 m=22$
f) $\frac{u}{6}=3$



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 $2 a$ 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 $a$.


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


$\square$


Work out the missing total of each row and column.
Compare answers with a partner.

