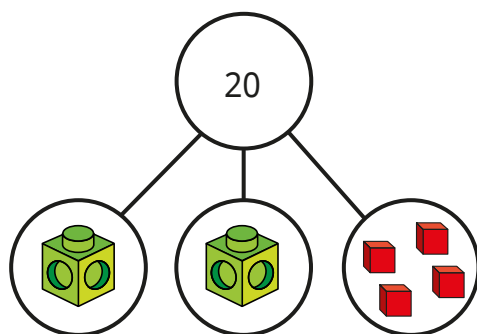



Solve 2-step equations

- 1 Here is a part-whole model.





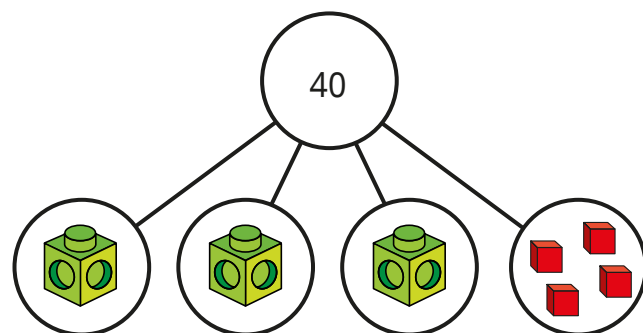
- a) Write an equation for the part-whole model.

- b) Solve the equation to work out the value of each linking cube.

 =

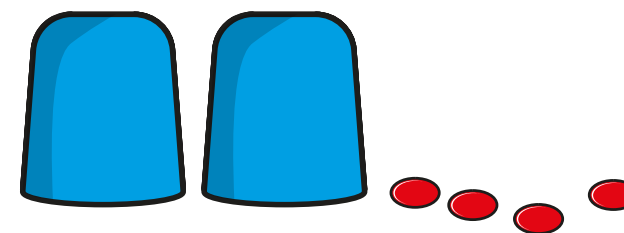
- 2 Form and solve an equation to work out the value of x .

 = x  = 1



x =

- 3 There is the same number of counters under each cup.
There are 16 counters in total.



- a) Use y to represent the number of counters under each cup.
Write an equation in terms of y .

- b) Solve the equation to find the value of y .

y =

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

- 4 Write an algebraic equation to represent each bar model.
Find the values of a and b .

a)

21		
a	a	9

a =

b)

46	
$3b$	10

b =

5 Solve the equations.

a) $5x + 1 = 31$

$x =$

b) $3x - 3 = 9$

$x =$

c) $4p - 11 = 3$

$p =$

d) $9 = 2y + 8$

$y =$

e) $10g - 2 = 46$

$g =$

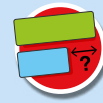
f) $4 + 3y = 28$

$y =$

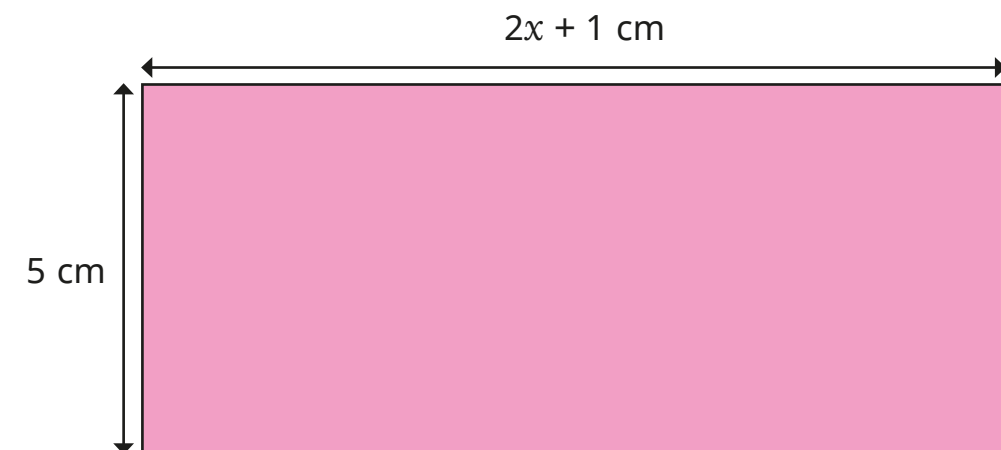
6 Jo thinks of a number.
She doubles it and adds 3
She gets the answer 15

a) Write an equation to represent Jo's problem.

b) Solve the equation to find her number.



7 Here is a rectangle.



The perimeter of the rectangle is 40 cm.
Work out the area of the rectangle.

 cm²

8 Alex is y years old.
Her friend Brett is 3 years older.
The total of their ages is 25
How old are Alex and Brett?

Alex

Brett

