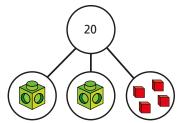
Solve two-step equations



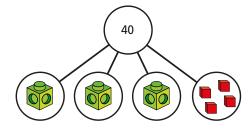
Here is a part-whole model.



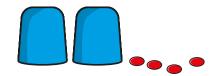
- a) Write an equation for the part-whole model.
- b) Solve the equation to work out the value of



If each multilink cube represents x, form and solve an equation to find the value x.



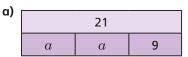
There is the same number of counters under each cup. There are 16 counters in total.



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

Write an algebraic equation to represent each bar model.

Find the values of a and b.



b)	46	
	3 <i>b</i>	10

Solve the equations.

a)
$$5x + 1 = 31$$

d)
$$9 = 2y + 8$$

b)
$$3x - 3 = 9$$

e)
$$10g - 2 = 46$$

c)
$$4p - 11 = 3$$

f)
$$4 + 3y = 28$$

Dani thinks of a number.

She doubles it and adds 3

She gets the answer 15

- a) Write an equation to represent Dani's problem.
- b) Solve the equation to find her number.
- 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?

a) Work out the cost of one banana and one orange.



- b) Compare methods with a partner.



