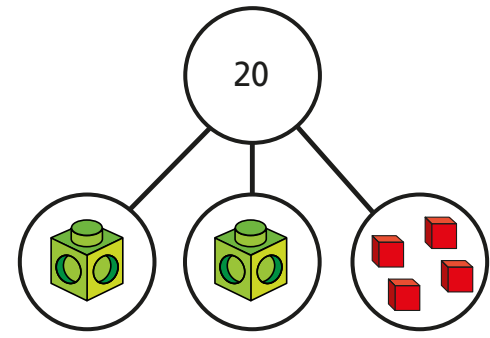


# Solve two-step equations

- 1 Here is a part-whole model.



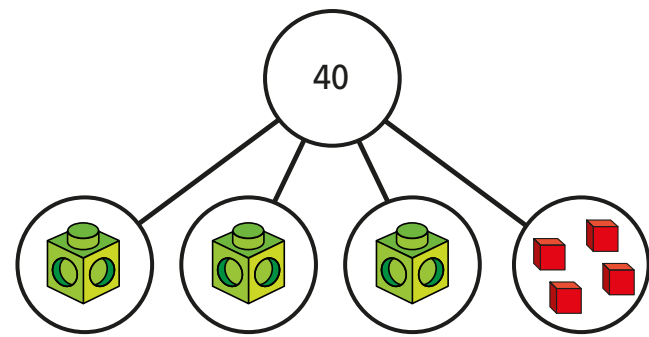
- a) Write an equation for the part-whole model.

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- b) Solve the equation to work out the value of

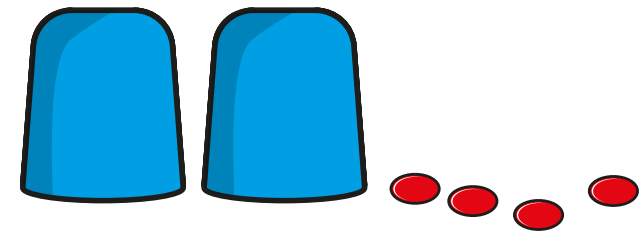
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- 2 If each multilink cube represents  $x$ , form and solve an equation to find the value  $x$ .



$x =$

- 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  $y$ .

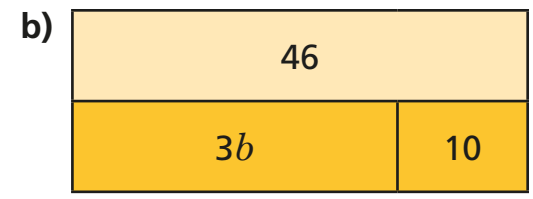
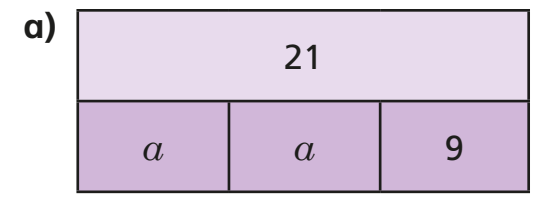
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- b) Solve the equation to find the value of  $y$ .

$y =$

- c) How many counters are under each cup?

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



$a =$

$b =$

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 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.



7 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 is

Brett is

8



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

One banana costs

One orange costs

b) Compare methods with a partner.

