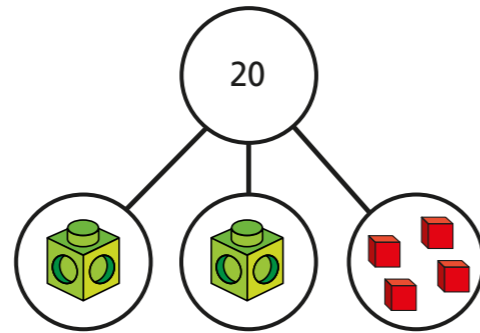




Solve two-step equations

1 Here is a part-whole model.

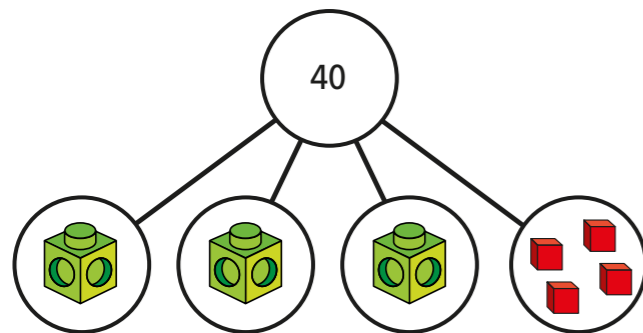


a) Write an equation for the part-whole model.

b) Solve the equation to work out the value of 

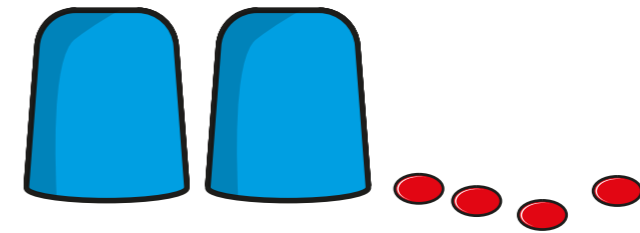
 =

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.



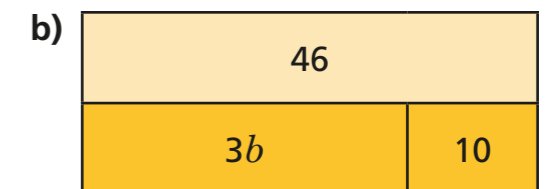
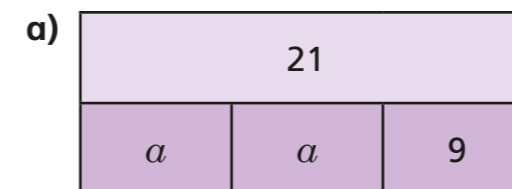
a) Use y to represent the number of counters under each cup.
Write an equation in terms of y .

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) $5x + 1 = 31$

$x =$

d) $9 = 2y + 8$

$y =$

b) $3x - 3 = 9$

e) $10g - 2 = 46$

$x =$

$g =$

c) $4p - 11 = 3$

f) $4 + 3y = 28$

$p =$

$y =$

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.

