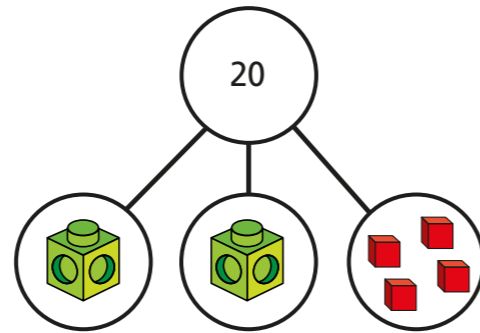


# Solve two-step equations


1 Here is a part-whole model.



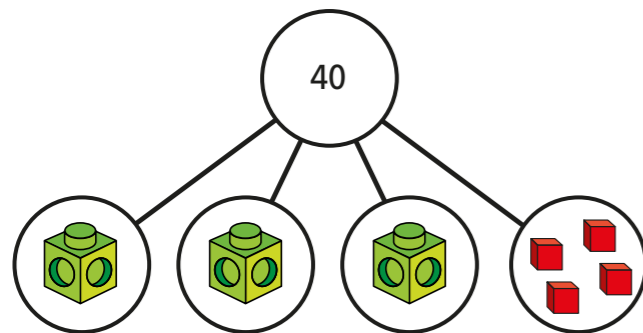
a) Write an equation for the part-whole model.

$$2a + 4 = 20$$

b) Solve the equation to work out the value of 

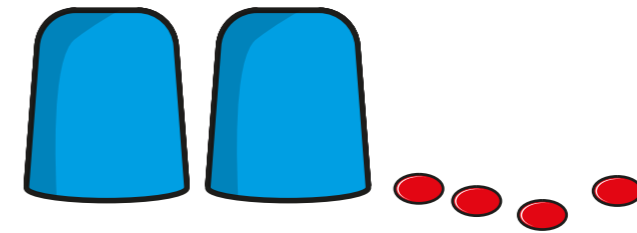
 = 8

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



$x =$  12

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  $y$ .

$$2y + 4 = 16$$

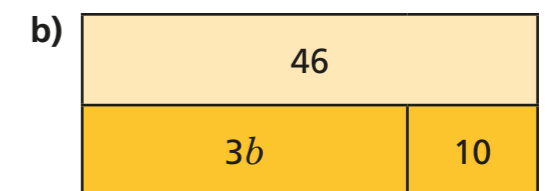
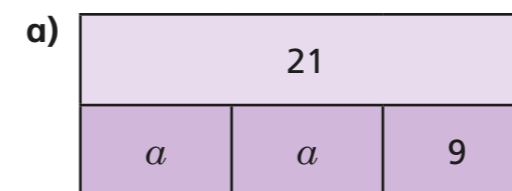
b) Solve the equation to find the value of  $y$ .

$y =$  10

c) How many counters are under each cup?

10

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



$a =$  6

$b =$  12

