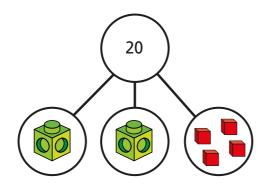




Here is a part-whole model.

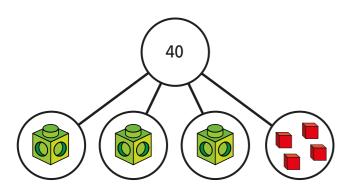


a) Write an equation for the part-whole model.

b) Solve the equation to work out the value of

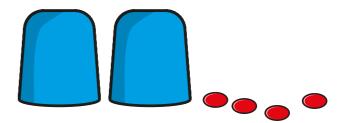


If each multilink cube represents x, form and solve an equation to find the value x.



$$x = 12$$

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



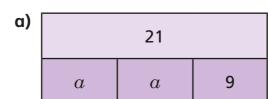
a) Use y to represent the number of counters under each cup. Write an equation in terms of y.

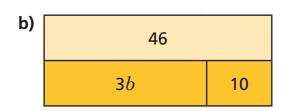
b) Solve the equation to find the value of y.

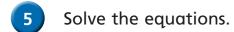
c) How many counters are under each cup?

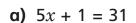


Write an algebraic equation to represent each bar model. Find the values of a and b.









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

$$x = 6$$

$$y = 0.5$$

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

c) 4p - 11 = 3

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

$$x = \boxed{4}$$

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

- 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.

$$2x + 3 = 15$$

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









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

One banana costs

s 32p

One orange costs

280

b) Compare methods with a partner.



