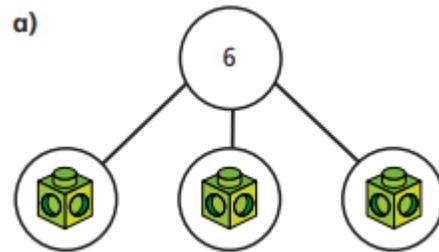


Maths Worksheet: Thursday 4th March 2021

Algebra: Solve Simple One Step Equations

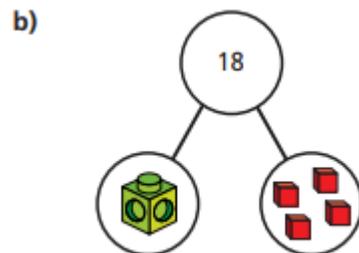
1) Write an equation for each part-whole model.

Work out the value of the multilink cube in each equation.



Equation:

$$\text{cube} = \square$$



Equation:

$$\text{cube} = \square$$

2)

There are some counters under the cup.



There are 10 counters in total.

a) If c is the number of counters under the cup, explain why

$$c + 6 = 10$$

b) Work out the value of c .

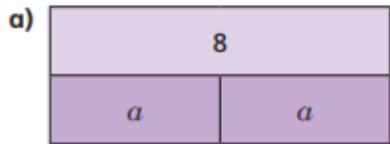
$$c = \square$$

c) How many counters are under the cup?

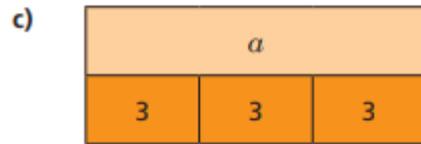
$$\square$$

3) Write algebraic equations to represent the bar models.

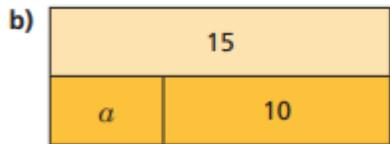
Find the value of a in each one.



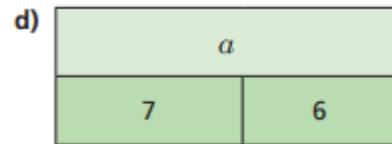
$$a = \square$$



$$a = \square$$



$$a = \square$$



$$a = \square$$

4)

Nijah is solving the equation $x - 8 = 20$

$$\begin{aligned} x - 8 &= 20 \\ x &= 20 - 8 \\ x &= 12 \end{aligned}$$

What mistake has Nijah made?

Stem Sentence:

The mistake that Nijah has made is...

The correct answer should be...

5) Solve the equations.

a) $x + 7 = 20$

$$x = \square$$

b) $10y = 80$

$$y = \square$$

c) $4m = 22$

$$m = \square$$

d) $g - 3 = 15$

$$g = \square$$

- 6) Filip thinks of a number.
He subtracts 5 from his number.
He ends up with 10

Write an algebraic equation to represent Filip's problem.

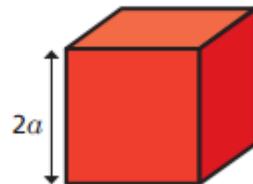
Equation:

Solve the equation to work out his number.

Filip's number is _____

7)

Dexter builds a tower.
Each block is $2a$ high.
He uses 7 blocks.



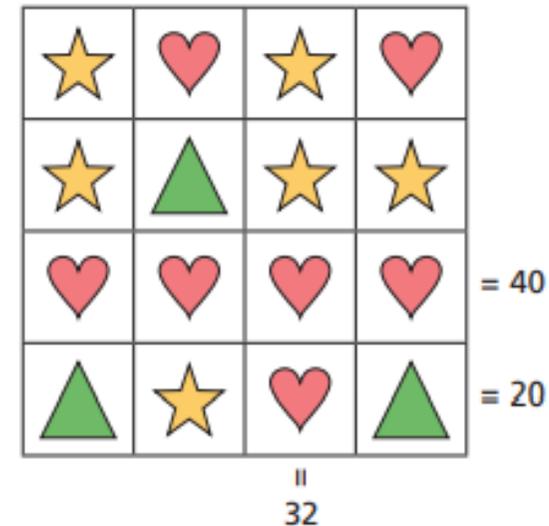
The total height of his tower is 42 cm.

Write an equation to represent the height of Dexter's tower and find the value of a .

$$a = \boxed{} \text{ cm}$$

- 8) Work out the value of each shape.

Write the equations that you solved to find the value of each shape.



♥ = ★ = ▲ =

Work out the missing total of each row and column.