26.02.21 Fluent in five

1) 50% of 672 =
2) 35% of 570 =
3) 21% of 680 =
4) 4582 x 46 =
5) 4158 ÷ 27 =
6) 15.63 ÷ 3 =

1) 10% of 780 =
2) 15% of 300 =
3) 1% of 430 =
4) 842 x 4 =
5) 6792 ÷ 3 =
6) 85.1 - 13.4 =

WALT solve one step equation

https://vimeo.com/502634894

Today we are going to learn how to solve simple equations that we looked at yesterday.

For example

$2y = 20$

$a + 10 = 12$

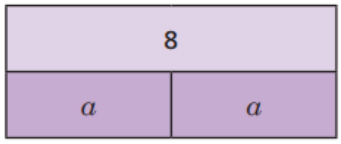
$x - 4 = 5$

How do you think we solve them? Where do we start?

Write algebraic equations to represent the bar models.

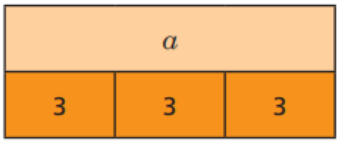
Find the value of a in each one.

a)



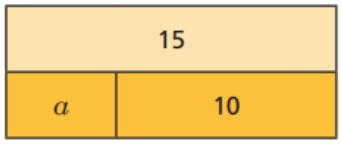
$a =$ ☐

c)



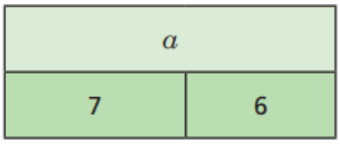
$a =$ ☐

b)



$a =$ ☐

d)



$a =$ ☐

Let's look at this together

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

$x - 8 = 20$

$x = 20 - 8$

$x = 12$

What mistake has Nijah made?

Try these on your own!

Solve the equations.

a) $x + 7 = 20$

$x =$ ☐

b) $10y = 80$

$y =$ ☐

c) $4m = 22$

$m =$ ☐

d) $g - 3 = 15$

$g =$ ☐

e) $32 = t - 5$

$t =$ ☐

f) $\frac{u}{6} = 3$

$u =$ ☐

Varied Fluency

- How many counters is each cup worth?
  Write down and solve the equation represented by the diagram.

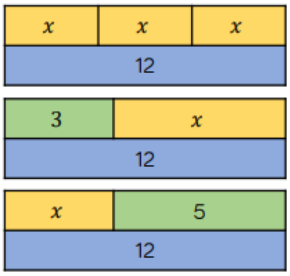
- Solve the equation represented on the scales.
  Can you draw a diagram to go with the next step?

- Match each equation to the correct bar model and then solve to find the value of x.

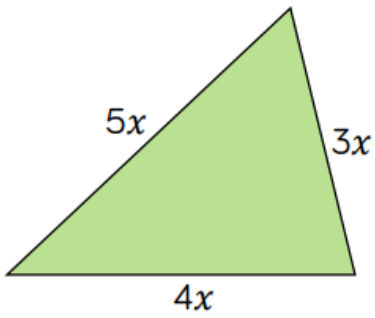
$x + 5 = 12$

$3x = 12$

$12 = 3 + x$



The perimeter of the triangle is 216 cm.



Form an equation to show this information.

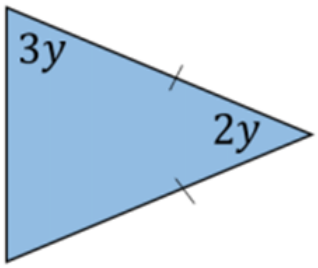
Solve the equation to find the value of x.

Work out the lengths of the sides of the triangle.

- Hannah is 8 years old
- Jack is 13 years old
- Grandma is $x + 12$ years old.
- The sum of their ages is 100

Form and solve an equation to work out how old Grandma is.

What is the size of the smallest angle in this isosceles triangle?



How can you check your answer?