

01.03.21 Fluent in five

1) 10% of 173 =

2) 35% of 650 =

3) 7% of 90 =

4) $y + 9 = 27$

5) $6472 \times 46 =$

6) $6318 \div 26 =$

1) 10% of 173 =

2) 15% of 600 =

3) 1% of 99 =

4) $y + 9 = 27$

5) $423 \times 3 =$

6) $7533 \div 3 =$

WALT solve two-step
equations

<https://vimeo.com/503005898>

Let's recap from Friday, solve these.

$$x + 5 = 19$$

$$4y = 36$$

$$p - 9 = 21$$

$$\frac{4}{t} = 2$$

Today we are going to learn how to solve two step equations.

$$4y + 7 = 27$$

What are the steps we need to do to solve this?

What about these?

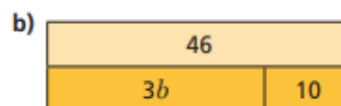
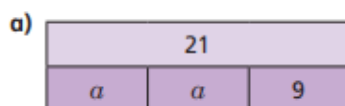
$$2x + 4 = 20$$

$$10y - 7 = 23$$

$$31 = 5b - 4$$

Write an algebraic equation to represent each bar model.

Find the values of a and b .



Try these on your own

Solve the equations.

a) $5x + 1 = 31$

d) $9 = 2y + 8$

b) $3x - 3 = 9$

e) $10g - 2 = 46$

c) $4p - 11 = 3$

f) $4 + 3y = 28$

Dani thinks of a number.

She doubles it and adds 3

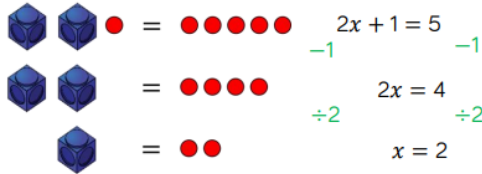
She gets the answer 15

a) Write an equation to represent Dani's problem.

b) Solve the equation to find her number.

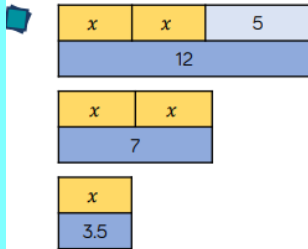
Varied Fluency

Here is each step of an equation represented with concrete resources.



Use this method to solve:

$4y + 2 = 6$ $9 = 2x + 5$ $1 + 5a = 16$



Here is each step of an equation represented by a bar model. Write the algebraic steps that show the solution of the equation.

Use bar models to solve these equations.

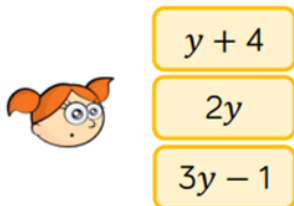
$3b + 4 = 19$ $20 = 4b + 2$

17

The length of a rectangle is $2x + 3$
 The width of the same rectangle is $x - 2$
 The perimeter is 17 cm.

Find the area of the rectangle.

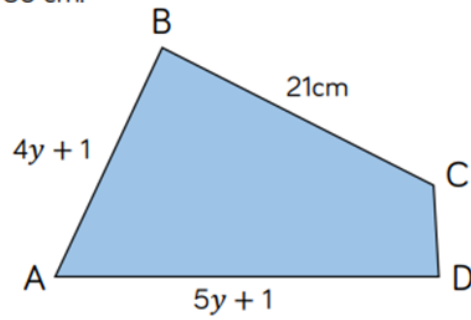
Alex has some algebra expression cards.



The mean of the cards is 19
 Work out the value of each card.

Here is the quadrilateral ABCD.

The perimeter of the quadrilateral is 80 cm.



AB is the same length as BC.

Find the length of CD.