

9.2.21

Arithmetic

1. $420 + 96 = ?$

4. $? + 3,900 = 4,500$

2. $? - 73 = 1,052$

5. $1,200 - ? = 500$

3. $4,232 + ? = 8133$

6. $? \times 6 = 78$

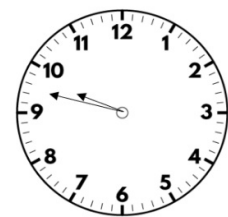
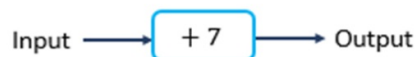
FB4

Flashback

4

Year 6 | Week 5 | Day 4

- 1) Write an expression for the output if x is input to this function machine.



- 2) Find 25% of 180
- 3) Write $\frac{3}{4}$ as a decimal
- 4) How many sides has a hexagon?

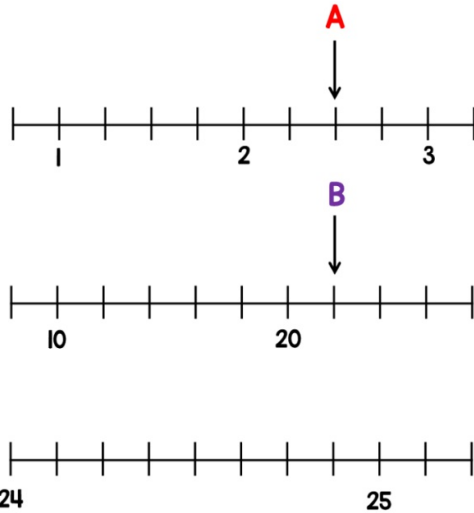
Problems of the Day

Problems of the Day 2020

Day
12

1 Given that $A + B = C$

Draw an arrow pointing to C



2 George has a box of counters.

- For every 2 red counters there are 5 blue ones.
- George removes 36 blue counters from the box.
- There are now the same amount of red and blue counters.

How many red counters were in the box at the start?

3 Elijah says he divided 32 by a number and got 64
Is this possible?

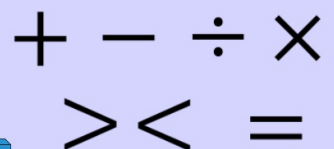
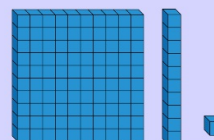
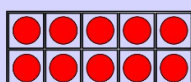
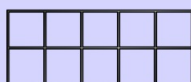
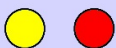


Formula



What is a formula?

What tells you that something is a formula?



Formula

What is a formula?

A mathematical rule that uses letters to represent numbers that can be changed

What tells you that something is a formula?

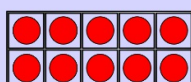
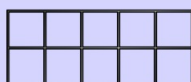
It contains an equals sign

It will have a specific purpose

You can use any values as long as they match the requirements of the formula (if it asks for the length then you substitute in the length)

Formula

Do you know any formula?



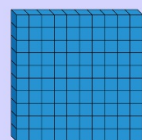
1

10

100

1,000

10,000



+

-

÷

×

>

<

=

Formulae

Here are some examples of formulas

area of a triangle = $\frac{1}{2} \times \text{base} \times \text{height}$

area of a rectangle = $l \times w$



To find the area of a rectangle

5cm



7cm

area = length \times width

$$\begin{aligned} &= 7 \times 5 \\ &= 35\text{cm}^2 \end{aligned}$$

We substitute the values that we are given.



Imagine this was a formula for identifying how much flour to use in a recipe

$$F = 0.5b + 2s$$

F = How much flour to use on grams

b = how much butter in grams

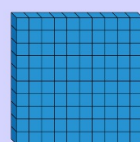
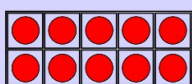
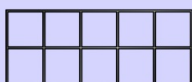
s = how much sugar in grams

If we used 250g of butter and 300 grams of sugar, we would use this amount of flour:

$$F = 0.5 \times 250 + 2 \times 300$$

$$F = 125g + 600g$$

$$F = 725g$$



9.2.21

Formulae

Vocabulary

- algebra
- function
- input
- output
- one-step
- two-step
- expression
- algebraic input
- formulae

9.2.21 Formulae

Today we are learning to substitute terms into familiar formulae.

I will be successful if:

- I recognise 'like terms' e.g $2+a = 3a$
- I know that a number before a letter means to multiply.
- I know how to use the inverse to calculate.


9.2.21

Plenary

True or False?

True or False ?

Formulae



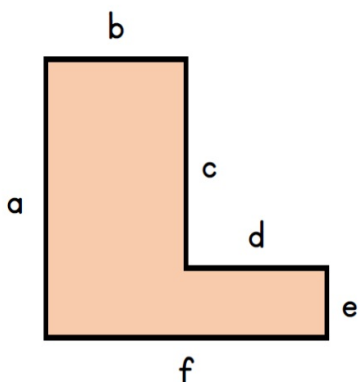
Ron

I could use any of the formulae to find the area of the rectilinear shape.

$ab + de$

$bc + ef$

$af - cd$



White Rose Maths