

11.2.21

Arithmetic

1. $9,600 - ? = 5,900$

4. $5,619 + ? = 6,000$

2. $1,400 + 38 = ?$

5. $? - 87 = 4,590$

3. $? + 5,150 = 9,200$

6. $? \times 8 = 64$

FB4

Flashback 4

Year 6 | Week 6 | Day 1

- 1) Use the formula $A = lw$ to work out the value of A when $l = 6$ and $w = 8$



- 2) What might the rule be for this function machine?



- 3) Write $\frac{2}{5}$ as a decimal

- 4) Divide 2394 by 7

Problems of the Day

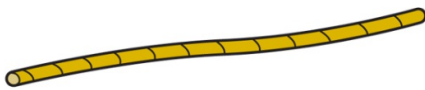
Problems of the Day 2020

Day 14

- 1 Circle all the numbers equivalent to 0.25

0.4 $\frac{50}{100}$ $\frac{25}{100}$ $\frac{1}{4}$

- 2 A rope measures 2.8 metres.



The rope is cut into 10 equal sized pieces.

What is the total length of 5 of these pieces?

- 3 Sweets come in boxes of 600
Danny has two boxes of sweets.



He packs the sweets into smaller bags.

There are 21 in each bag.



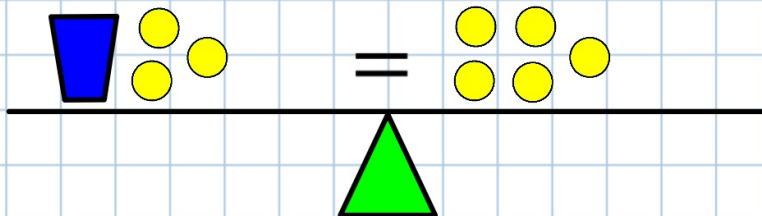
How many bags can Danny fill using all the sweets?



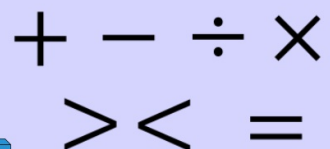
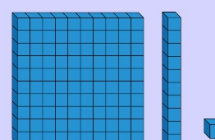
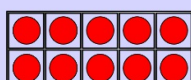
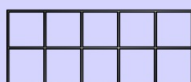
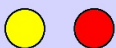
Solving equations with one step



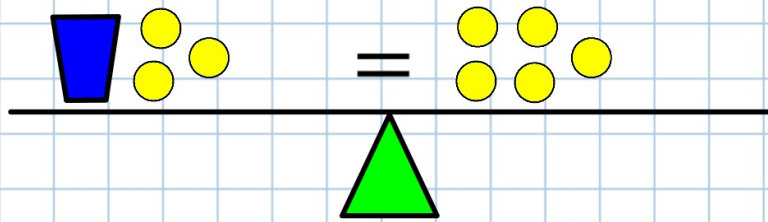
We need to recognise the equals sign (=) as a balance.



We know that one cup and 3 is the same as 5



Solving equations with one step



We know that one cup (c) and 3 is the same as 5

We could turn this into an equation

$$c + 3 = 5$$



Solving equations with one step

To solve

$$c + 3 = 5$$

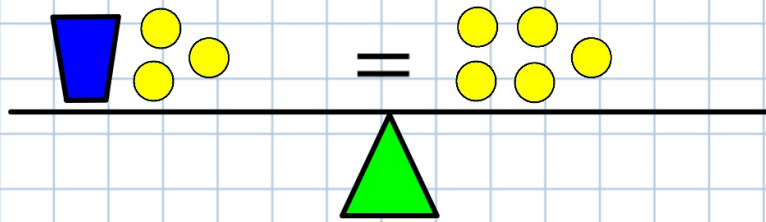
We need to carry out the inverse. Instead of adding 3 we need to subtract 3.

$$5 - 3 = 2$$

$$\text{so } c = 2$$



Solving equations with one step

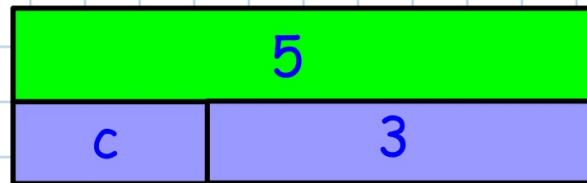


Balance

$$c + 3 = 5$$

Equation

We can also show this as a bar model



Bar model



Solving equations with two steps

$$\begin{array}{lcl}
 \text{3 cubes} + \text{1 circle} = \text{7 circles} & & 3a + 1 = 7 \\
 \text{2 cubes} = \text{6 circles} & \xrightarrow{-1} & 3a = 6 \\
 \text{1 cube} = \text{3 circles} & \xrightarrow{\div 3} & a = 3
 \end{array}$$

When solving two step problems, we want to do the same thing to each side of the equation.



Solving equations with two steps

$$4z + 20 = 44$$

$$\quad \quad -20 \quad -20$$

We subtract the 20 (inverse), so that we are left with 4 lots of z on one side.

$$4z = 24$$

$$\quad \quad \div 4 \quad \div 4$$

We divide by 4 to find out what one lot of z is.

$$z = 6$$

We can then put our value of z back into the original equation to check if it is correct:

$$4 \times 6 + 20 = 44$$



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One and two-step equations

Vocabulary

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

11.2.21 One-step equations

Today we are learning to solve one-step and two-step equations.

I will be successful if:

- I can recognise the balance between the two sides of an equation.
- I recognise that the letters will have a specific value.

11.2.21


Plenary

True or False?

True or False ?

Solve simple one-step equations

$$x - 17 = 20$$



Dexter

x is equal to 3

White Rose Maths