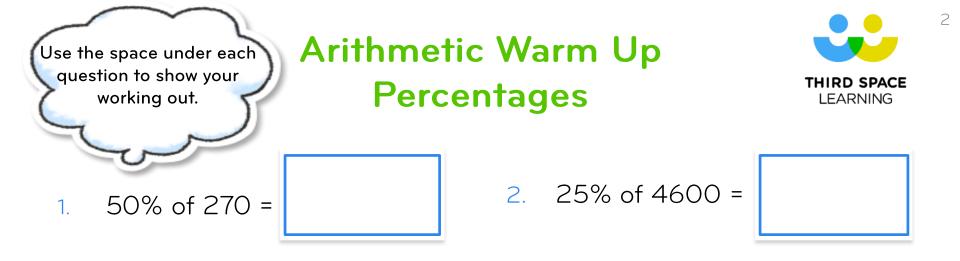


HELLO!

Today we are going to learn to revise ratio and proportion





One-to-one online Maths interventions: <u>www.thirdspacelearning.com</u>



Revision on ratio and proportion



Today we are going to revise how to:

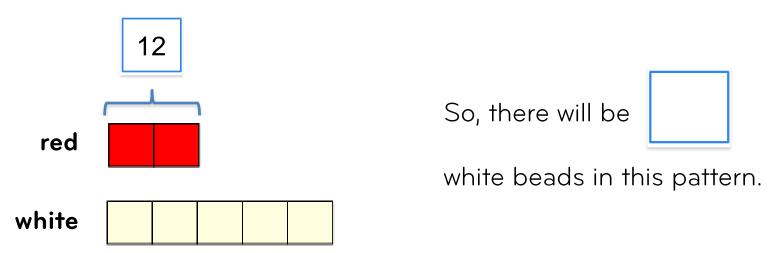
- to write, multiply and divide ratios
- to scale in proportion and use scale factors
- to solve problems using ratio and proportion



Revision: Ratios



If we continue this pattern of beads, how many white beads will there be if there are 12 red? We can use a drawing to model this!





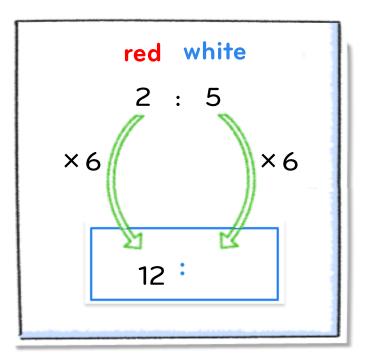
Revision: Ratios using multiplication

We can also solve this using multiplication.

The ratio of **red beads** to **white beads** is 2 : 5.



If there are 12 red beads in this pattern, how many white beads will there be?





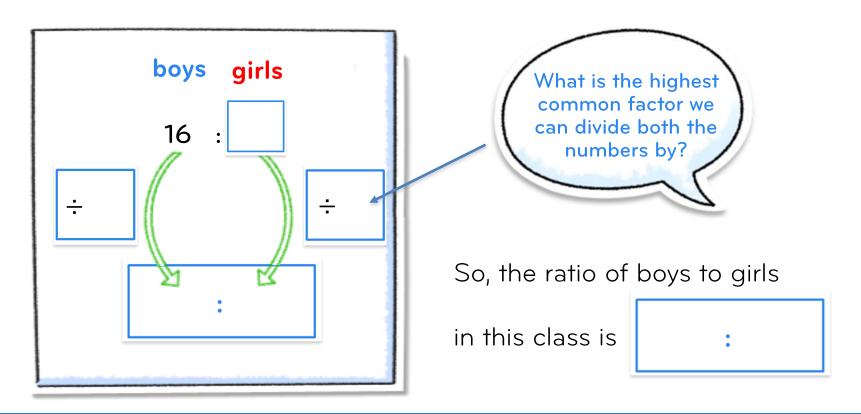


Revision: Ratios using division

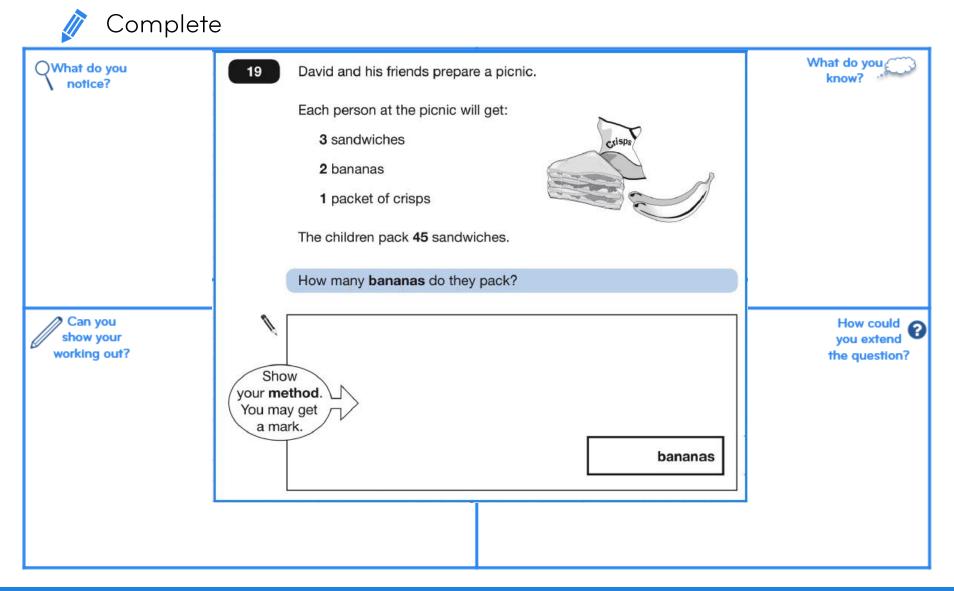
We can also solve similar problems using division.

There are 28 children in a class.

- a) There are 16 boys; how many girls are there?
- b) What is the ratio of boys to girls written in its simplest form?

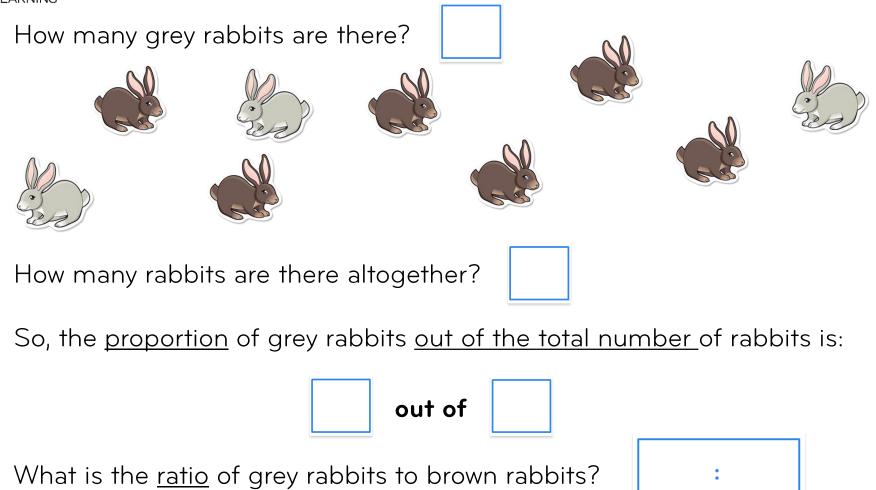








Revision: Proportion



Explain how you think ratio and proportion are different.

8



Revision: Proportion (scaling)

Sometimes we need to use scaling to help keep things in proportion

To make 4 smoothies, Amy needs 6 scoops of ice-cream and 20 strawberries.

If Amy needs to make 6 smoothies,

a) How many scoops of ice-cream will she need?

b) How many strawberries does she need?

Explain how you know.

strawberries



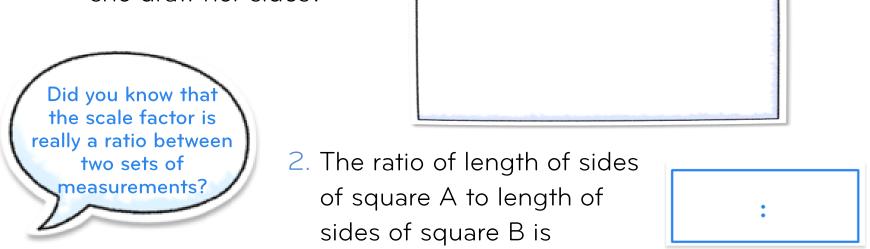
scoops



Using scale factors



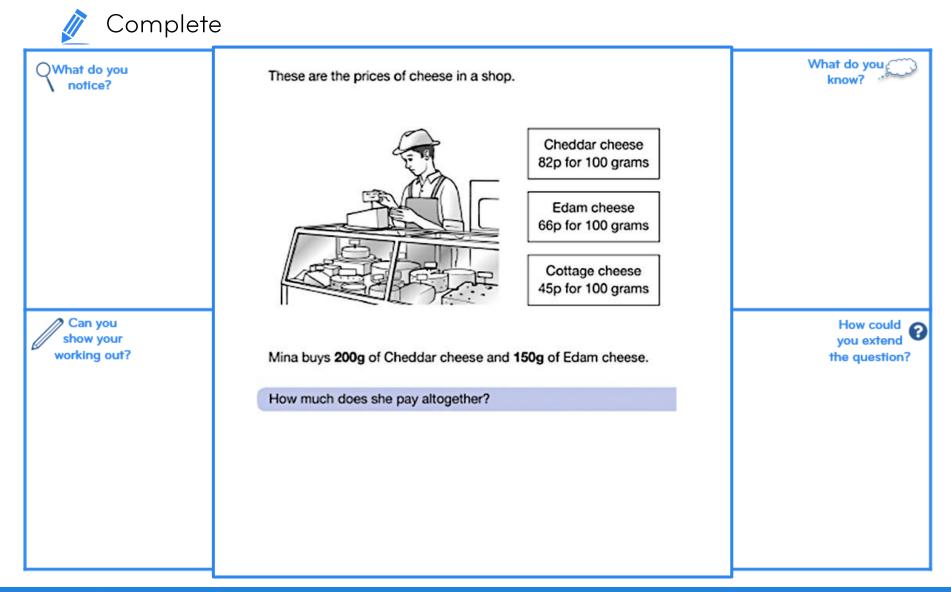
 Beth draws a square that has sides of 3cm. She wants to draw another square that is larger by a scale factor of 6. How long should she draw her sides?



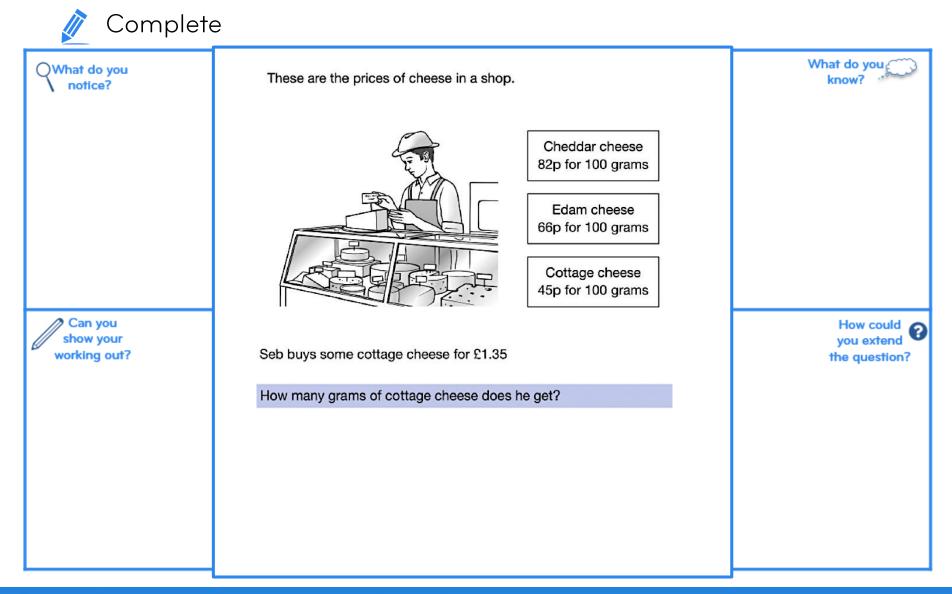


Complete What do you? Here are two similar parallelograms (not drawn to scale). What do you know? notice? В 4cm Α 56cm 7cm 1) What is the scale factor from Parallelogram A to Parallelogram B? Can you How could 0 2) What is the length of the side ef? show your you extend working out? the question?

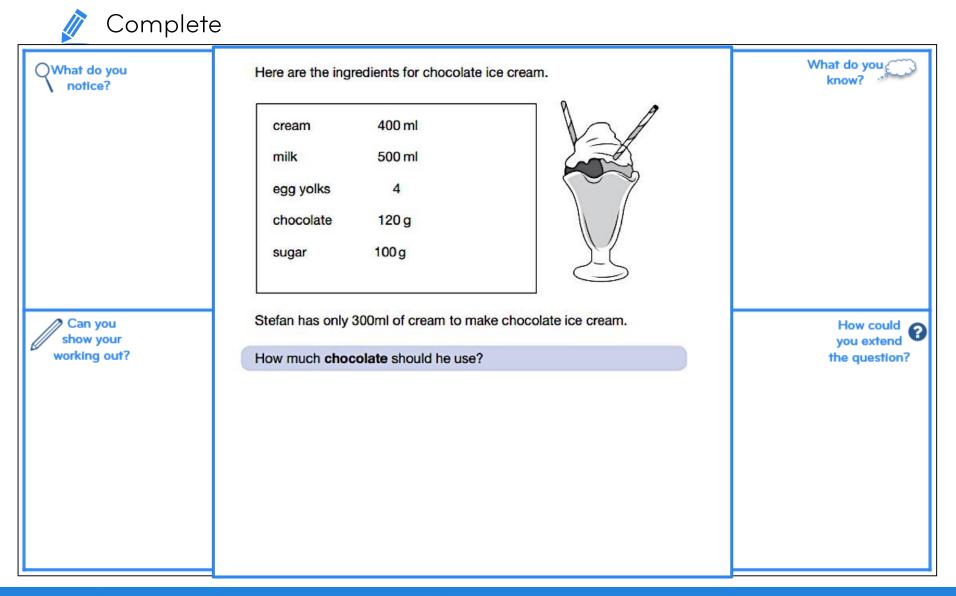














Let's review:

- I can write, multiply and divide ratios
- I can scale in proportion and use scale factors
- I can solve problems using ratio and proportion
 - Draw a circle around the smiley face to show how you feel about what we've just been doing.



Is there something you would like to go over before we move on?

