Year 11 Mathematics Learning Journey: Unit 6 - Ratio and Proportion

Step 12: Mixed ratio problems

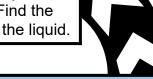
The ratio of the angles in a triangle is 3:4:5. Show that the triangle does not contain a right angle.

Step 10: Inverse proportion

It takes 3 machines 2 days to produce a batch of products. Work out how long it would take 1 machine to produce the same batch of products.

Step 9: Pressure and density

A liquid has density of 1.3 grams per ml. Find the mass of 250ml of the liquid.



Step 5: Combining Ratios

The ratio of the number of cats to dogs in a pet shop is 2:5. The ratio of the number of dogs to rabbits in the shop is 3:10. Find the ratios of Cats:Dogs:Rabbits

Step 6: Ratio and Algebra

x:y is equal to 5:3 Work out x and y if x - y = 240

Step 7: Direct Proportion

A machine fills 1000 bottles in 5 hours. Work out how many hours it would take the machine to fill 1200 bottles.

Step 4: Best Buy **Problems**

Which is better value: 4 litres of juice for £1.80 of 3 litres of juice for £1.50?

Step 3: Currency Conversion

Pounds to Canadian dollars is £1 = \$1.70How many Canadian dollars can you get for £200?

Step 2: Ratios and Graphs

If two variables are directly proportional, what will the graph look like?

Step 1: Ratios of the form 1:n and n:1

Write the ratio £5:80p in the form n:1



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