

Year 10 Mathematics Learning Journey: Unit 10 - Rates

Step 7 (H): Convert compound units

Explain why 1m^3 is not equal to 100cm^3 .

Step 6: Rates of change and their units

A machine fills 200 bottles in 8 minutes. How long will it take for the machine to fill 1500 bottles?

Step 5: Flow problems and their graphs

Sketch a graph of the depth of water against time for the container.



Step 3: Use distance-time graphs

What does the gradient of a straight line segment in a distance-time graph tell us?

Step 4: Density, Mass, Volume

The density of tin is 7260kg/m^3 . Calculate the volume of a piece of tin with a mass of 8kg.

Step 2: Speed, Distance, Time (calculator)

Work out the average speed of an aeroplane which travels 5000 miles in 8 hours and 42 minutes.

Step 1: Speed, Distance, Time (non-calculator)

How many minutes is 0.25 of an hour?



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