To be able to use formulae

MathShed

Starter:

Mega, a taxi app, charges £2.50 as a service fee and £1.50 per mile travelled.

How much would a 2 mile taxi journey cost altogether?

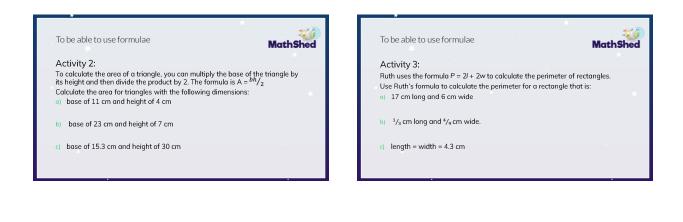
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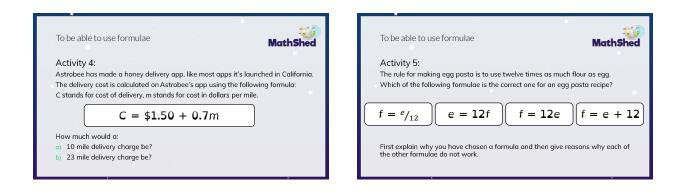


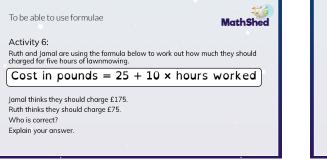
## Activity 1:

To calculate a person, vehicle or objects speed, you divide the distance it travels by the time taken to travel the distance. The formula is S = d  $\div$  t

- For example, to be an Olympic 100 m sprinter, you need to be able to run at an average speed of 10 metres per second, 100 metres  $\div$  10 seconds = 10 m/s. a) If a fielder throws a ball 200 metres and it lands in 4 seconds, what speed was the ball travelling at?
- b) If a cyclist travels around a 400 metre track in 20 seconds, how fast were they travellina







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Activity 7: After completing the question given, write a formula based on the cooking time instructions	Here is a rule for the time it takes to cook a turnip. Cooking time = 30 minutes plus an extra 45 minutes per kilogram
provided.	How many minutes will it take to cook a 2 kg tump?
	What is the mass of a turnip that takes 210 minutes to cock?

