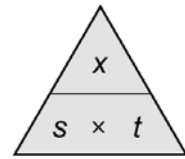
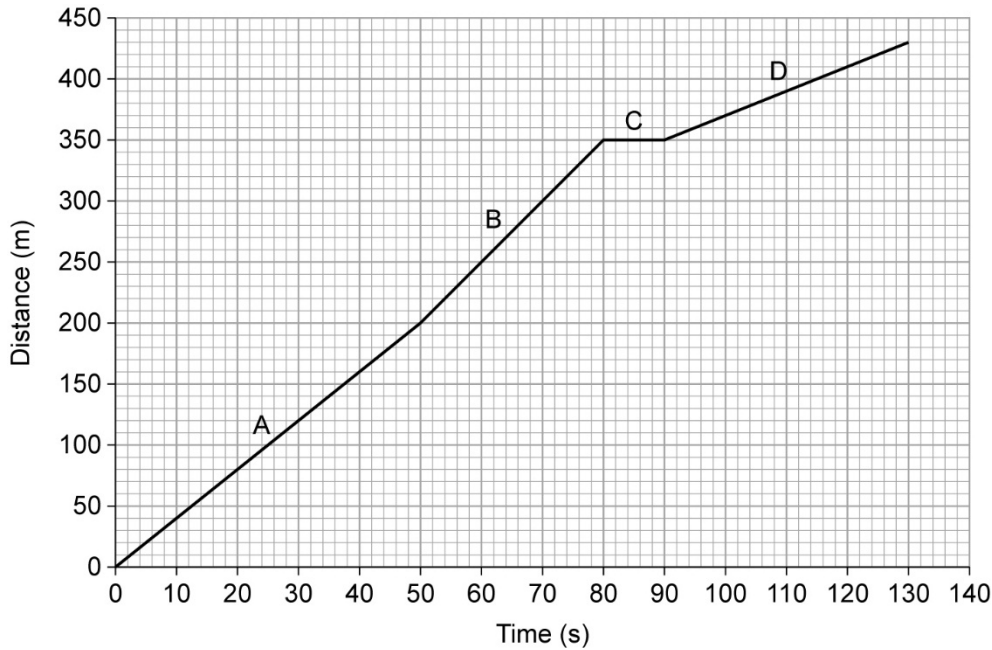


Name _____ Class _____ Date _____

This is a distance/time graph for a cyclist travelling along a road.



This triangle can help you rearrange the formula for speed. Cover up the quantity you want to calculate, then write what you can see on the right of your = sign.

Remember, x represents distance.

- 1 a Which section of the graph shows where the cyclist waited at a junction? _____
 b For how long did the cyclist wait? _____
- 2 a Which section of the graph shows where the cyclist was travelling the fastest? _____
 b How can you tell from the graph that the speed was fastest here? _____
- 3 a How far did the cyclist travel in the first 50 s? _____
 b Calculate the speed in the first 50 s.

speed = _____ m/s

- 4 Part of the journey was uphill. Explain which part of the graph is likely to show this part of the journey.

- 5 A cheetah can run for a short time at 3 m/s (70 mph). How far can it travel in 19 s?

distance = _____ m

- 6 A tortoise can crawl at a top speed of 0.2 m/s. How long will it take the tortoise to travel 15 m?

time = _____ s