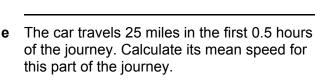Name _____   Class _____   Date _____

1 The units for speed depend on the units for the distance and the time. Fill in the table.
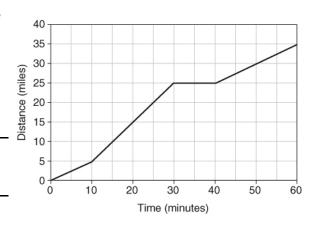
Units for distance	Units for time	Units for speed	
miles	hours		mph
kilometres		kilometres per hour	
	seconds		m/s

2 A car travels 250 miles in 5 hours.

a Complete the equation for calculating speed.

$$\underline{\hspace{2cm}} = \frac{\text{distance}}{\underline{\hspace{2cm}}}$$

b What are the units of speed when distance is in miles and time is in hours? _____

3 What is mean speed? Tick (✓) the best answer.

☐ The top speed in a journey.

☐ The total distance travelled divided by the total time taken.

☐ The speed on a journey where the speed did not change at all.

4 A bus makes a 10 mile journey through town. Its top speed is 30 mph and its mean speed is 10 mph.

Explain why these speeds are different.

_____

_____

5 The distance–time graph shows a journey by car.

a Write an F on the graph next to the part of the journey with the fastest speed.

b Write an S on the graph where the car stopped.

c How long did the car stop for?

_____

d What was the total distance travelled?

_____

e The car travels 25 miles in the first 0.5 hours of the journey. Calculate its mean speed for this part of the journey.

speed =

I can…
- describe the meanings of speed and mean (average) speed
- use the formula relating speed, distance and time
- interpret a distance–time graph.