



QTS Practice questions: Distance and speed etc (1)

1. The distance from London to Cambridge by road is 60 miles.
 - a) If a car travels at an average speed of 30 mph, how long will it take?
 - b) If a coach travels at an average speed of 20 mph, how long will it take?
 - c) If a cyclist travels at an average speed of 10 mph, how long will it take?
 - d) If a motorbike travels at an average speed of 40 mph, how long will it take?

2. A car uses 1 litre of petrol to travel 6 miles
 - a) How many litres will it need for a journey of 72 miles?
 - b) How many litres will it need for a journey of 100 miles? (*Answer to 1 decimal place*)
 - c) How far can it travel with 35 litres of petrol?
 - d) How far can it travel with 42.5 litres of petrol?

3. The distance from Paris to Marseille by road is 750 km
 - a) If a car travels at an average speed of 100 km/hour, how long will it take? (*Answer in hours and minutes*)
 - b) If a coach travels at an average speed of 90 km/hour, how long will it take? (*Answer in hours and minutes*)
 - c) If a motorbike takes 12 hours for the journey, what is its average speed in km/hour?

4. Car A uses 1 litre of petrol to travel 10km
 - a) How many litres will it need for the return trip from Paris to Marseille?
 - b) A litre of petrol costs £1.25. What is the cost of the return trip from Paris to Marseille?
 - c) Car B will travel 12 km using 1 litre of diesel, which costs £1.40 per litre. Is it cheaper to make the return trip using car A or car B? By how much?

Answers

- | | | | |
|--------------------|----------------|-------------------------------|-------------------------|
| Q1 a) 2 hours | b) 3 hours | c) 6 hours | d) $1\frac{1}{2}$ hours |
| Q2. a) 12 litres | b) 16.7 litres | c) 210 miles | d) 255 miles |
| Q3. a) 7 hr 30 min | b) 8 hr 20 min | c) 62.5 km/hr | |
| Q4. a) 150 litres | b) £187.50 | c) car B is cheaper by £12.50 | |