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