Time Distance and Speed

1) A train travels at an average speed of 87km/h for 3 hours 20 minutes. How far does it travel?

2) A car covers a distance of 112 miles in 1 hour 45 minutes. What is its average speed in miles per hour?

3) Another car covers the same distance of 112 miles at an average speed of 48mph. How long does the journey take this car?

4) On a motorway a car covers 42 miles in 35 minutes. What is its speed in miles per hour?

5) A man estimates that his car can average 45mph on a certain journey, which is a distance of 105 miles.
(a) If he wants to arrive at 12 noon, at what time should he leave?
(b) He leaves at this time, and finds that in fact he arrives at 11.40am. What average speed did he actually manage over the journey?

6) A woman leaves her home by car at 1300 on a 200km journey.
(a) She estimates that she can average 75km/h for the trip. At what time does she expect to arrive?
(b) In fact she does not arrive until 1620. What was her average speed for the journey?

7) A train is travelling at 81km/hour
(a) What is its speed in metres per second?
(b) How long does it take to travel 180 metres?

8) A man has to make a 180-mile journey. 105 miles of the journey are on motorway, where the man averages 70mph, but for the rest of the journey he averages 30mph.
(a) How long does the whole journey take?
(b) What is the average speed for the whole journey?

9) Two trains leave simultaneously from stations 300km apart. If train A is travelling from X to Y at 75km/h and train B is travelling from Y to X at 105km/h, how long will it be before they meet?