120 × 5 = 600 minutes 1 top toxes 600 minutes 600 ÷ 3 = 200 minutes

Each bell (WS w) fool at the same late

- 1. A plane travels at a speed of 213 miles per hour.
 - (a) Work out an estimate for the number of seconds the plane takes to travel 1 mile.

200 miles per 1 nour
200 miles per 60 minutes
200 miles per 3600 seconds

1:200
1:200
1 mile per 18 seconds

seconds (3)

(b) Is your answer to part (a) an underestimate or an overestimate? Give a reason for your answer.

Overestimate, because we rounded the speed down

(1)

(Total for Question

is 4 marks)

37.000./

2. Nimer was driving to a hotel. He looked at his Sat Nav at 1330

Time	1330
Distance to destination	65 miles

Nimer arrived at the hotel at 1448 > Oustance

Work out the average speed of the car from 1330 to 1448 You must show all your working.

50 / mph

(Total for Question is 4 marks)

3. Andy cycles a distance of 30 km at an average speed of 24 km/h. He then runs a distance of 12 km at an average speed of 8 km/h.

Work out the total time Andy takes. Give your answer in hours and minutes.

$$Speed = \frac{distance}{time}$$
 : time = $\frac{distance}{Speed}$

$$t_{1}me_{1} = \frac{30}{24} = 1.25 \text{ hows}$$

$$time_{1} = \frac{8}{12} = 1.5 \text{ nows}$$

2.75 hours = 2 hours and 0.75 hours.

: 2.75 hours = 2 hours and 45 minutes.

2 hours 45 minutes

(Total for Question is 3 marks)

(1)