

### Level 3 Time - Distance - Speed

*Answer the following questions, showing all your working.*

**No calculator allowed for Q1 to 3.**

1. Change the following 12 hour clock times to 24 hour clock times:-  
(a) midday                      (b) 12.40am                      (c) 9.55pm
2. Calculate how long it is from:-  
(a) 2.25pm to 5.47pm                      (b) 2250 to 0010 (the next day)
3. Calculate how far the following travel:-  
(a) jogging at 9km/hr for 3 and a half hours.  
(b) A boat sailing for  $2\frac{1}{4}$  hours at an average speed of 20mph
4. Calculate the average speed of the following:-  
(a) A plane flies 1380miles in 6 hours.  
(b) A train travels 75 feet in 2 seconds
5. Calculate the time taken for the following (give answers in **hrs and mins**)  
(a) running, 6km at 12 km/hr  
(b) flying at 240m.p.h for 660 miles.
6. A virgin train left Glasgow Central at 0915 and arrived at its destination at 1145. If the train travelled 175miles, what was its average speed?
7. A car travels a distance of 48 kilometres in 36mins. Calculate its speed in km/hr.