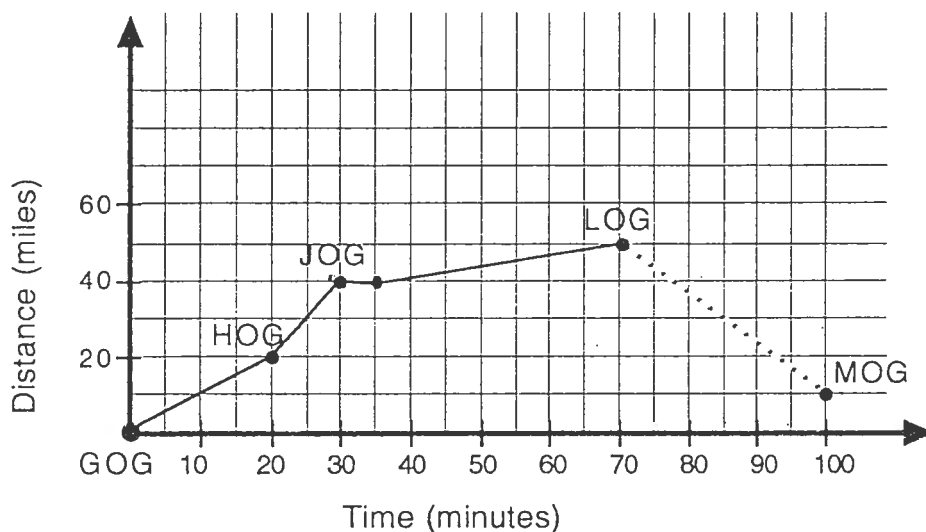


- Change the following into hours. (Write your answers as decimals) :-

(a) 5 hours 30 minutes	(b) 2 hours 15 minutes	(c) 1 hour 20 minutes
(d) 40 minutes	(e) 8 hours 36 minutes	(f) 3 hours 3 minutes.
- Write as hours and minutes :-

(a) 185 minutes	(b) 3.5 hours	(c) 2.3 hours
(d) 1.75 hours	(e) $4\frac{1}{3}$ hours	(f) 0.45 hours.
- The graph shows the car journey from the town named "GOG" to the town "MOG".



- Write down :-
 - the time taken to go from GOG to LOG.
 - in which town the car parked for a while.
 - for how long it stopped there.
 - between which 2 towns the car was travelling at the fastest speed.
 - the average speed from :-

a) GOG to HOG	b) LOG to MOG.
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 - in which part of the journey was there something wrong with the car though it still managed to keep moving.
 - what time the car reached LOG if it left GOG at 1740 hours.
- Explain the journey in the last half hour.

..cont

4. Terri uses a mileage chart to find the shortest distance between 2 towns.

	Trafford				
108	Goodison				
294	395	Elland			
290	393	45	Annfield		
148	256	234	245	St James	
130	116	436	426	260	Ewood

- (a) Use the chart to find the distance between :-
- Goodison and St James.
 - Trafford and Ewood.
 - Elland and Annfield.
 - Trafford and Ewood. (going via Annfield)
- (b) Calculate the average speed of Terri's car if she goes from Trafford to Annfield in 5 hours.

5. The train from Bishopton to Glasgow takes 25 minutes. If the distance between stations is 15 Km, find the average speed of the train. (in km/hr).

6. How long will an aeroplane take to cover 1040 miles at a speed of 320 m p.h. ? (answer in hours and minutes)

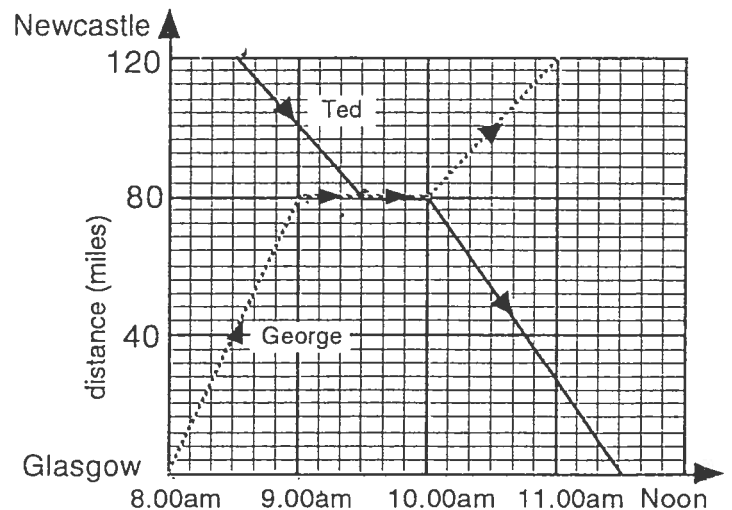
7. How fast is a cyclist travelling if he covers 480 metres in 50 seconds ? (give your answer in metres/sec and then km/hr).

8. Two long distance lorry drivers, George and Ted, work for the same firm.

George leaves Glasgow on his way to Newcastle at 8.00 am.

Ted leaves Newcastle on his way to Glasgow at 8.30 am.

They arrange to meet at the Motorway service station at Gretna which is 80 miles from Glasgow, to discuss football. The graph shows their journeys.



- At what time did George arrive in Gretna ?
- For how long did they meet each other at the service station ?
- Calculate George's average speed from Glasgow to Gretna.
- Calculate Ted's average speed for the entire journey from Newcastle to Glasgow.

Time Distance Speed

1. (a) 5.5 (b) 2.25 (c) 1.333... (d) 0.66... (e) 8.6 (f) 3.05.
2. (a) 3 hr 5 mins (b) 3 hrs 30 mins (c) 2 hrs 18 mins
(d) 1 hr 45 mins (e) 4 hrs 20 mins (f) 27 mins.
3. (a) (i) 70 mins (ii) JOG (iii) 5 minutes
(iv) HOG & JOG (v) (a) 60 m p h (b) 80 m p h
(vi) JOG to LOG (vii) 1850.
(b) Turned round at LOG and headed back towards GOG.
4. (a) (i) 256 miles (ii) 130 miles (iii) 45 miles
(iv) $(290 + 426) = 716$ miles.
(b) 58 m p h.
5. 36 m p h. 6. 3 hrs 15 mins. 7. 9.6 m/sec, 34.56 km/hr.
8. (a) 9:00am (b) 30 mins (c) 80 mph (d) 40 mph.