M4 = 29 days to go!

4 The speeds of cars on a road were recorded over a period of time.

The results are recorded in the grouped frequency table.

2			
Speed (s miles per hour)	Frequency	mid-pt	fx
20 < s ≤ 30	12	25	300
$30 < s \le 40$	16	35	560
40 < <i>s</i> ≤ 50	18	45	810
$50 < s \le 60$	2	55	110
60 < s ≤ 70 m	2	65	130

(a) How many cars were travelling at more than 40 mph?

Answer 22 [1]

(b) Which class interval contains the median speed?

(c) Calculate an estimate for the mean speed of the cars on the road.

Mean =
$$\frac{9um \ 6f \ fx}{sum \ 6f \ f}$$
Mean = $\frac{1910}{50}$

Ans 38.2 mph

14 A cliff is 130 m high.

From the top of the cliff, the angles of depression of two boats, both due east and level with each other, are 14° and 21° respectively.

The Control of the Co

Calculate the distance between the boats.

Show all your working clearly.





