

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.

Speed (s miles per hour)	Frequency		
$20 < s \leq 30$	12		
$30 < s \leq 40$	16		
$40 < s \leq 50$	18		
$50 < s \leq 60$	2		
$60 < s \leq 70$	2		

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

Answer _____ [1]

(b) Which class interval contains the median speed?

Answer _____ [1]

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

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.

Calculate the distance between the boats.

Show all your working clearly.



Answer _____ m [5]