Name:

**Exam Style Questions** 



## Estimated Mean

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

## Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 55



The table below shows the length of 100 fish from a local river.



length, L, cm	Frequency	Midpoint	l t1
0 < L ≤ 10	21	5	105
10 < L ≤ 20	11	15	165
20 < L ≤ 30	31	25	775
30 < L ≤ 40	12	35	420
40 < L ≤ 50	25	45	1192
Calculate an es	2590		

		Λ	
Height, h, cm	Frequency	Ling bin	L'X
110 ≤ h < 120	3	115	345
120 ≤ h < 130	8	125	1000
130 ≤ h < 140	9	135	1215
140 ≤ h < 150	23	145	3335
150 ≤ h < 160	+ 7	155	. 1085
(-) 186-ta- d H	50		(040)

(a) Write down the modal class interval.

(b) Work out an estimate for the mean height of the students.

James recorded the times, in minutes, for 20 students to complete a test.
The information about these times is shown in the table.



Time (t minutes)	Frequency	M. Jogist	fx
0 < t ≤ 4	4	\2	8
4 < t ≤ 8	11		l l
8 < t ≤ 12	4	10	40
12 < t ≤ 16	1	14	. 14

(a) Write down the modal class interval.

4<t<8

(b) Work out an estimate for the mean time taken.

128:20 = 6.4

4. Timothy asked 30 people how long it takes them to get to school.



The table shows some information about his results.

Time (t minutes)	Frequency	thing by	fx
0 < t ≤ 10	2	5	lo
10 < t ≤ 20	8	15	130
20 < t ≤ 30	12	25	300
30 < t ≤ 40	7	35	245
40 < t ≤ 50	+ 1	45	45
Work out an estir	30 mate for the mean tim	e taken.	720

720:30:24

5. The time for ten students to complete a race is below.

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		<b>.</b>	۲.
Time (t seconds)	Frequency	w gboy	+1
20 < t ≤ 40	3	30	Op
40 < t ≤ 60	5	50	aso
60 < t ≤ 80	2	<i>50</i> 70 .	+ 140
'	10	_	440

(a) Work out what fraction of students took over one minute.

(b) Write down the modal interval.

(c) Work out an estimate for the mean time taken.