

12:03 | Mean and Median

Name: _____

Class: _____

Exercise

1 Calculate the mean, median and mode for each set of data.

- a 3, 3, 3, 4, 4, 4, 4, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 6, 6, 6, 7
- b 10, 10, 10, 11, 11, 11, 12, 12, 12, 12, 12, 12
- c 1, 1, 2, 3, 3, 5, 5, 5, 7, 8, 9, 9, 9, 9, 10
- d 25, 23, 27, 22, 21, 22, 25, 25, 28

2 Calculate the mean, median and mode for each frequency distribution table.

a

Outcome (x)	Frequency (f)	$f \times x$	Cumulative frequency (c.f.)
0	3		
1	6		
2	9		
3	5		
4	2		

Total = Total =

b

x	f	$f \times x$	c.f.
5	2		
6	8		
7	11		
8	13		
9	7		
10	9		

Total = Total =

c

x	f	$f \times x$	c.f.
0	1		
10	5		
20	7		
30	8		
40	3		
50	1		

Total = Total =

d

x	f	$f \times x$	c.f.
15	2		
16	3		
17	5		
18	1		
19	4		

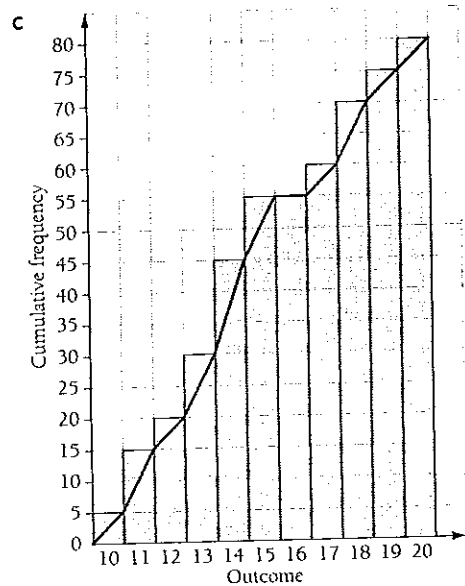
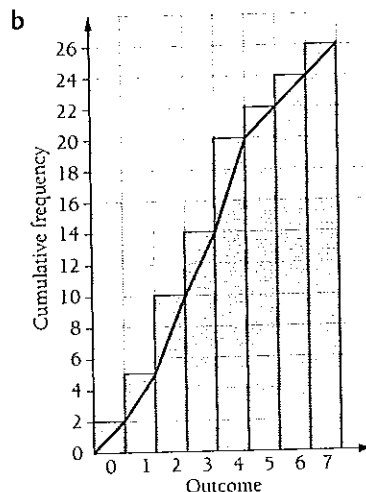
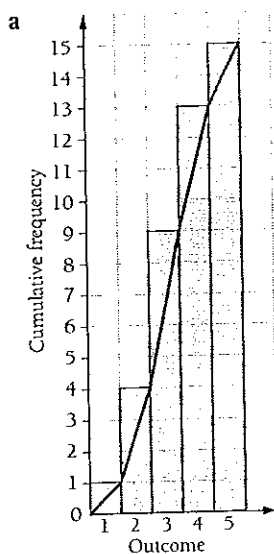
Total = Total =

e

x	f	$f \times x$	c.f.
97	6		
98	13		
99	7		
100	3		

Total = Total =

3 Find the median for each cumulative frequency diagram.



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1 a mean $\hat{=}$ 4.7, median = 5, mode = 5

b 11.25, 11.5, 12

c $\hat{=}$ 5.7, 5, 9

d $\hat{=}$ 24.2, 25, 25

2 a mean = 1.88, median = 2, mode = 2

b 7.84, 8, 8

c 24, 20, 30

d $\hat{=}$ 17.1, 17, 17

e $\hat{=}$ 98.2, 98, 98

3 a 3

b 3

c 14