

Mean/Median/Mode/Range

Model Answer

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[2]

[3]

Tim scores the following marks in 8 tests.

7 8 8 y 6 9 10 5

His mean mark is 7.5.

Calculate the value of y.

 $\frac{\frac{7+8+8+y+6+9+10+5}{8}}{y=7} = 7.5$

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Question 2

Malcom plays four games of golf. His four scores have a mean of 75, a mode of 78 and a median of 77.

Work out his four scores.

Command his four scores are A, B, CD. $A + B + C + D = 75 \times 4 = 300$

Most frequent occurrences is 78

So it appears 2 time s at least.

 $\mbox{Cominand } A \geq B \geq C \geq D, \mbox{ So a median of 77, } \quad \frac{B+C}{2} = 77, \ B+C = 154$

 $78 \times 2 = 156 > 154$ So B and C isn't 78 neither.

 $B \ge C \ge D$, So A = 8 = 78, C = 154 - 78 = 76D = 300 - 78 - 78 - 76 = 68





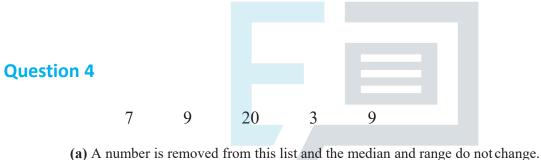
Amber's mean mark on five tests is 80. Her marks on four of these tests are 68, 81, 74 and 89.

Work out her mark on the fifth test.

Set the mark on the fifth test as x.

 $\frac{68+81+74+89+x}{5} = 80$ x = 88

> Write down this number. The answer is 7.



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[1]

(b) An extra number is included in the original list and the mode does not change.

Write down a possible value for this number.

In the actual list, the mode is clearly 9.

[1]

[2]





Cheryl recorded the midday temperatures in Seoul for one week in January.

Day	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Temperature (°C)	_4	-5	-3	-11	-8	-3	-1

(a) Write down the mode.

Order the temperature values from smallest to largest.

-11 -8 -5 -4 -3 -3 -1

There are two minus 3s here.

- So, the mode is -3.
- (b) On how many days was the temperature lower than the mode?

-11 < -3 -8 < -3 -5 < -3 -4 < -3.

So, the answer is 4 days

Question 6

Leon scores the following marks in 5 tests.

8 4 8 y 9

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His mean mark is 7.2.

Calculate the value of y.

Mean score =
$$\frac{\text{Sum of Individual score}}{\text{Total Number of scores}}$$

 $7.2 = \frac{8+4+8+y+9}{5}$
 $7.2 = \frac{29+y}{5}$
 $7.2 \times 5 = 29+y$
 $36 = 29+y$
 $36 = 29+y$
 $7 = y$
of $\Rightarrow y = 7$

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[1]

[1]

[2]





In Vienna, the mid-day temperatures, in °C, are recorded during a week in December. This information is shown below.

-2 2 1 -3 -1 -2 0

Calculate

(a) the difference between the highest temperature and the lowest temperature, [1]

 $5^{\circ}C$

(b) the mean temperature.

 $-rac{5}{7} = c$









During one week in April, in Quebec, the daily minimum temperatures were

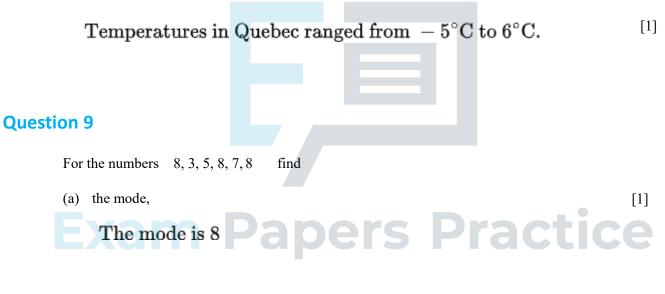
$$-5^{\circ}C$$
, $-1^{\circ}C$, $3^{\circ}C$, $2^{\circ}C$, $-2^{\circ}C$, $0^{\circ}C$, $6^{\circ}C$.

Write down

(a) the lowest of these temperatures,

$$-5^{\circ}$$
C. [1]

(b) the range of these temperatures.



- (b) the median, [1] The median of the numbers is 8.
- (c) the mean. [1] The mean of the numbers 8, 3, 5, 8, 7, 8 is 8.3.