MME

GCSE MATHEMATICS
AQA | Edexcel | OCR | WJEC

Mean, Median, Mode and Range

Please write clearly in block capitals

Forename:
Surname:

Materials

For this paper you must have:
• mathematical instruments

You *can* use a calculator.

Instructions

• Use black ink or black ball-point pen. Draw diagrams in pencil.
• Fill in the boxes at the top of this page.
• Answer all questions.
• You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
• Do all rough work in this book. Cross through any work you do not want to be marked.

Information

• The marks for questions are shown in brackets.
• You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

• In all calculations, show clearly how you work out your answer.

1   Find the mean, median, mode and range for the following set of numbers

           1,   20,   15,   8,   7,   8,   7,   11,   11,   1,   8

Give your answer for the mean to 1 decimal place.

[4 marks]

_____

_____

_____

_____

Mean: _____

Mode: _____

Median: _____

Range: _____

2   James has a number of $6\,\text{kg}$ sacks of carrots, and a number of $16\,\text{kg}$ sacks of carrots.

The mean weight of the sacks of carrots is $12\,\text{kg}$.

What is the least number of $6\,\text{kg}$ and $16\,\text{kg}$ sacks of carrots that James has?

[3 marks]

_____

_____

_____

_____

Answer _____

Turn over for next question

Turn over ▶

3   Christopher has seven rabbits in his garden.

Their weights, in kg, are listed below.

$$1.1 \quad 1.9 \quad 1.5 \quad 1.3 \quad 2.0 \quad 1.3 \quad 1.7$$

3(a)   Calculate the mean, mode, median and range for this data.

Give your answers to a suitable degree of accuracy.

[4 marks]

Mean: _____

Mode: _____

Median: _____

Range: _____

3(b)   Two of the rabbits are put in their hutch.

The average weight of the remaining five rabbits is now 1.6 kg.

Find the combined weight of the two rabbits that were put in their hutch.

[3 marks]

Answer _____

Turn over for next question

7

Turn over ►

4   Sarah earns £8.43 an hour. She thinks that most of her friends are paid more.

Here is a list of how much her friends earn per hour.

Jenny	£8.40	Simon	£8.55
Helen	£8.48	Jane	£8.48
Peter	£8.29	Amy	£8.44

By calculating the mean, median and mode for her friends pay, investigate if Sarah is correct, giving an explanation for your answer.

[4 marks]

Answer _____

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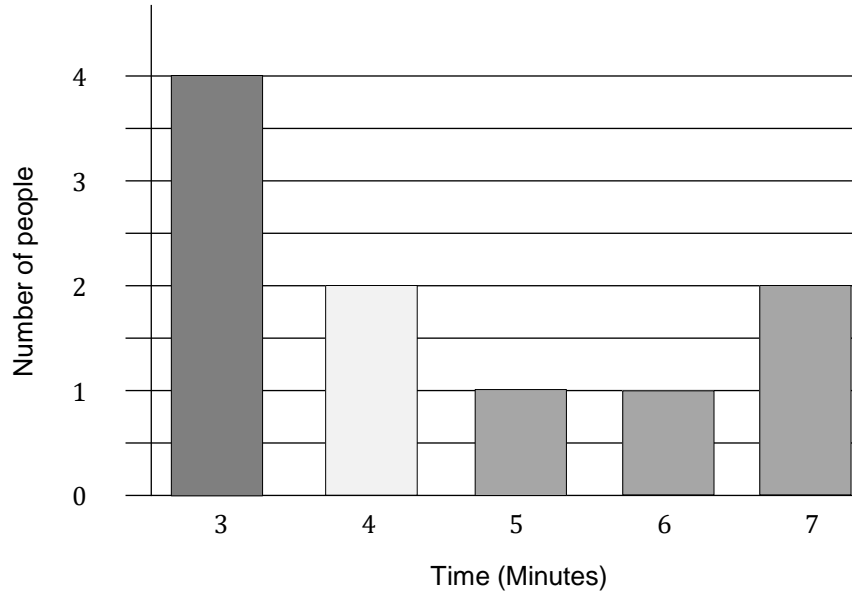
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Turn over ►

5   Jane recorded the time taken, in minutes, for her friends to complete a jigsaw (to the nearest minute).

The times taken are shown in the bar chart below.

5(a)   Find the mean time taken to complete the jigsaw.

[3 marks]

Answer _____

5(b)   Find the range of times taken.

[1 mark]

Answer _____

4

Turn over ▶

6 Sally has 4 cards taken from a deck of 10 cards labelled 1 to 10, as shown below:

The range of the cards is 8

The median of the cards is 6

The mean of the cards is 5.5

1			

6(a) Sally already knows the number 4 is not one of her three cards as it is missing from the deck.

Find the 3 missing numbers

[3 marks]

Answer _____

6(b) Sally adds one more card to the set.

The median of all 5 cards is 6.

What number card did she add?

[1 mark]

Answer _____

End of Questions

4

END