



Education Consultancy

# **Edexcel GCSE Mathematics**

# MEAN, MEDIAN MODE & RANGE

### **Materials Required:**

- Pen - HB Pencil

Ruler (in centimetres and millimetres)
 Protractor
 Compass

### Information:

The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question
 Questions marked with an asterisk (\*) will assess your written communication; be careful of spelling,

punctuation and grammar with these questions

#### Instructions:

Use a black ink pen to answer all questions
Fill your name in the section below
Answer the questions in the spaces provided
Show your working out for all answers

### Advice:

- Carefully read the question before attempting to answer it
- Be vary of time and try to answer every question

 If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

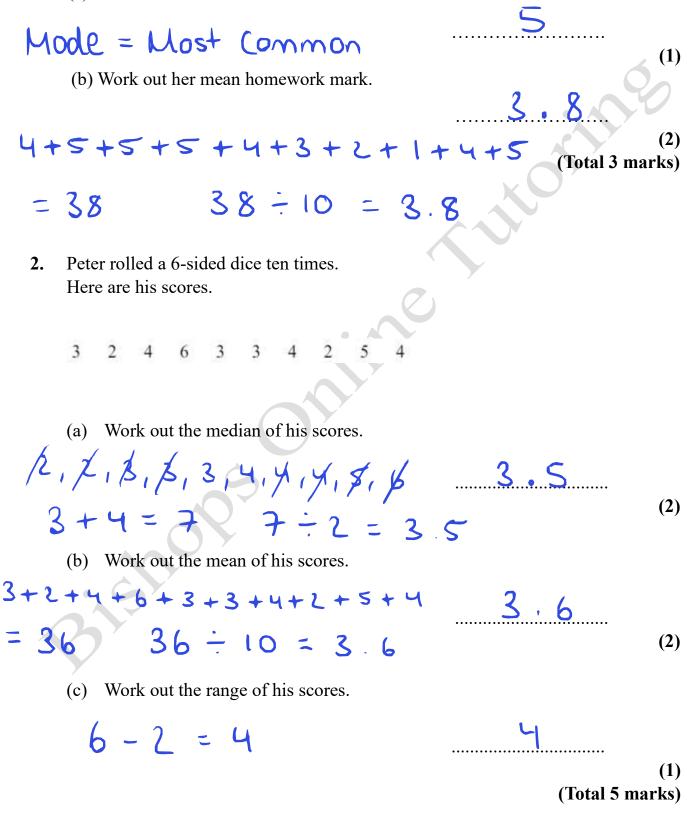
## **NO CALCULATOR ALLOWED**

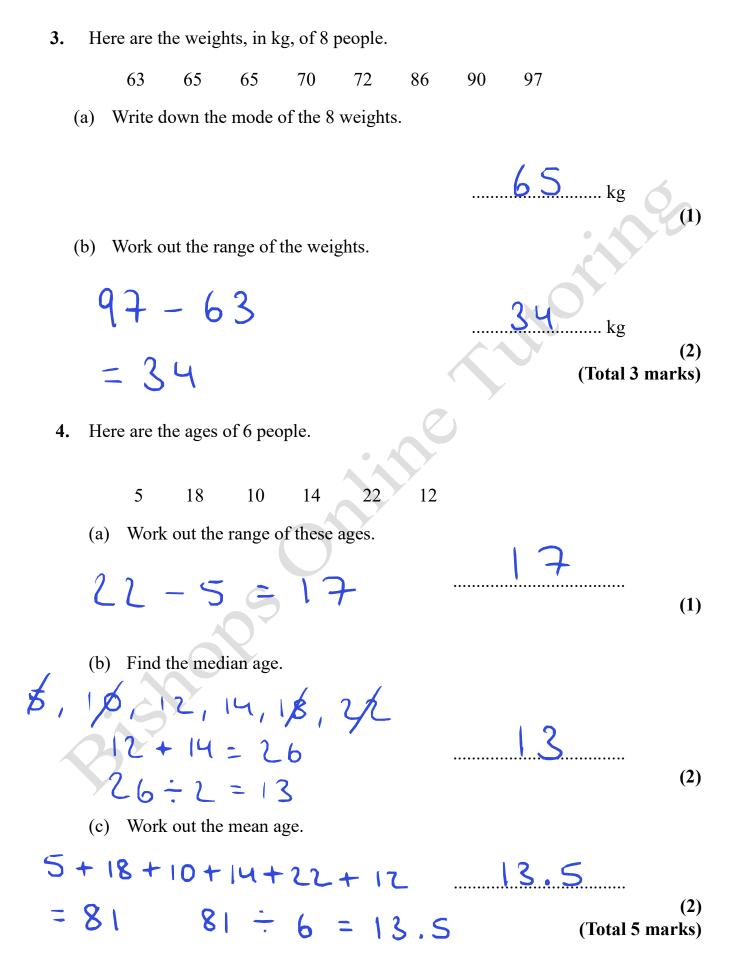
NAME:

1. Chloe made a list of her homework marks.

4 5 5 5 4 3 2 1 4 5

(a) Write down the mode of her homework marks.





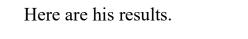
5. Here are the shoe sizes of 6 students.

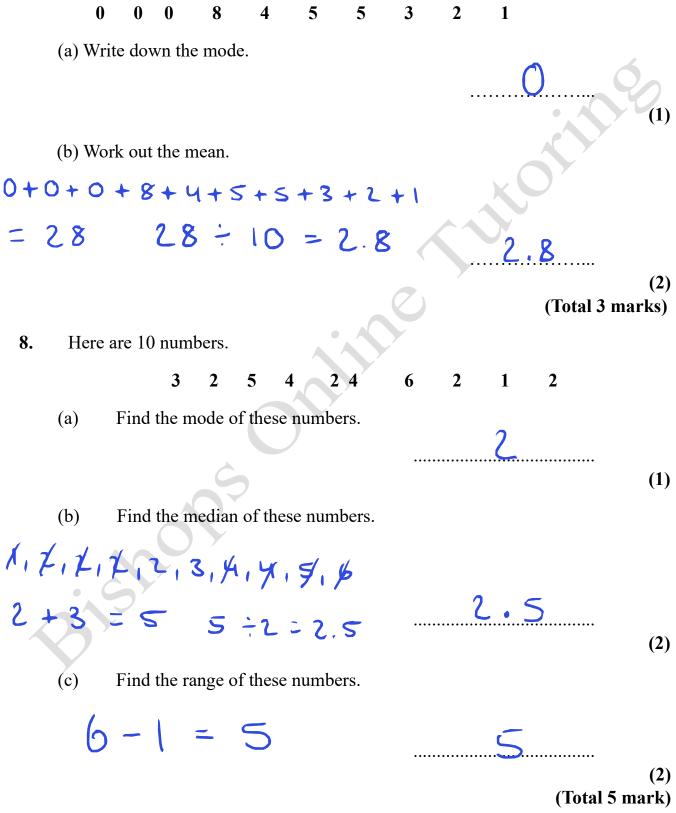
#### 2 10 7 6 10 9

(a) Work out the range of these shoe sizes.

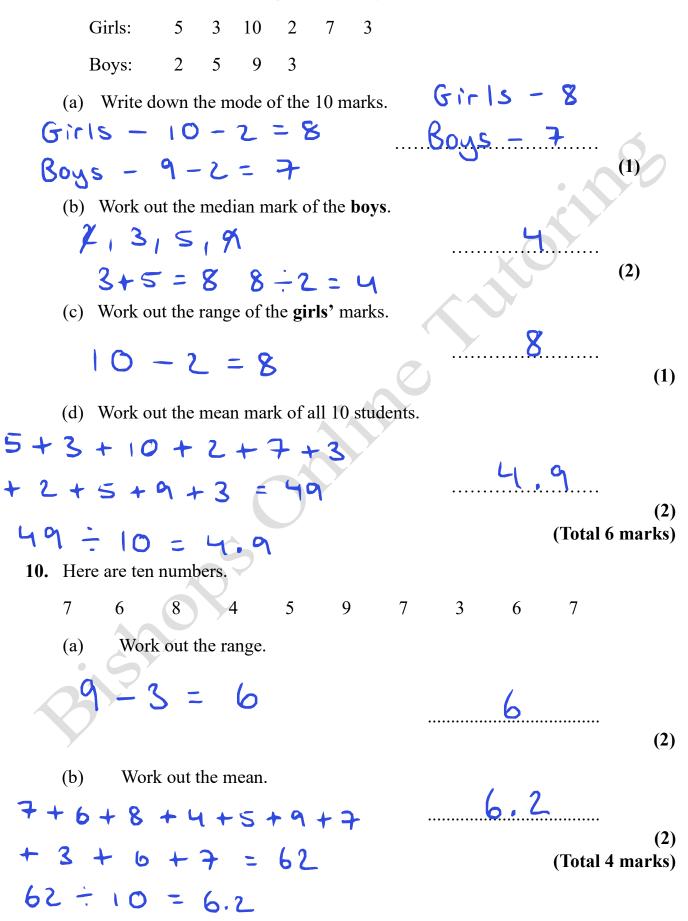
10 - 2 =R (1) (b) Find the median shoe sizes. 2, 16, 7, 9, 10, 16 7 + 9 = 16 $16 \div 2 = 8$ (2) (c) Work out the mean shoe sizes. 2 + 10 + 7 + 6 + 10 + 944 44 - 6 = 7 (2) (Total 5 marks) 6. Jalin wrote down the ages, in years, of seven of his relatives. 45. 43, 43, 39, 38. 40, 39 (a) Find the median age. 10 3/8, 3/9, 3/9 43,48,4/5 40 (1) (b) Work out the range of the ages. 38 (1) (c) Work out the mean age. 45+38+43+43+39+40+39 (2) (Total 4 marks) = 287 287 - 7 = 41

7. Mr Smith kept a record of the number of absences for each student in his class for one term.





9. Here are the test marks of 6 girls and 4 boys.



**11.** Here are fifteen numbers.

| 10 | 12 | 13 | 15 | 15 |
|----|----|----|----|----|
| 17 | 19 | 20 | 20 | 20 |
| 21 | 25 | 25 | 25 | 25 |

(a) Find the mode.

(b) Find the median.

25 - 10 = 15

10,17,18,18,18,14,14,20,26,

.. (2)

(1)

(1)

(2)

(Total 4 marks)

**12.** A rugby team played 7 games.

Here is the number of points they scored in each game.

(a) Find the median.

The rugby team played another game. They scored 11 points.

(b) Find the median number of points scored in these 8 games.

3, 8, 8, 9, 11, 12, 12, 16  $\mathbf{IC}$ (3) +11 = 20(Total 5 marks) 2 210

12

16

12

13. Tom recorded the shoe size of five of his friends. Here are his results.

8 9 3 4 7

(a) Work out the median shoe size.