GCSE Maths: Mean, median, mode and range (Foundation): worksheet

GCSE Maths - Statistics - Foundation - Lesson 24.3

Name: _____ Date: _____ Score: _____

13 questions. Write your answers in the spaces. Answers and step-by-step help are free at **websink.site/gcse/maths/ch24-statistics/foundation/mean-median-mode-and-range/**

Exercise 24C Mean, median, mode and range

Non-calculator

1 Work out the mean of each set of numbers.

(a) 4, 7, 10

Answer:

(b) 12, 15, 9, 14

Answer:

(c) 3, 8, 5, 6, 8

Answer:

(d) 21, 18, 24, 17, 20

Answer:

(e) 2.5, 3.5, 4.5

Answer:

(f) £2.40, £3.60, £1.50, £4.50

Answer:

2 Work out the median of each set of numbers.

(a) 5, 9, 2, 7, 3

Answer:

(b) 11, 4, 8, 15, 6

Answer:

(c) 12, 7, 3, 9

Answer:

(d) 20, 14, 18, 22, 11, 16

Answer:

(e) 1.5, 0.8, 2.2, 1.1

Answer:

(f) −3, 5, 0, −8, 2

Answer:

3 Write down the mode of each set of data.

(a) 3, 5, 2, 5, 7, 5, 2

Answer:

(b) 8, 6, 8, 9, 6, 8, 7

Answer:

(c) red, blue, red, green, blue, red

Answer:

(d) 4, 7, 4, 9, 7, 2 (two modes)

Answer:

4 **Work out the range of each set of numbers.**

(a) 4, 9, 3, 12, 7

Answer:

(b) 15, 22, 18, 30, 25

Answer:

(c) 1.2, 0.7, 2.5, 1.9

Answer:

(d) −3, 5, 0, 8

Answer:

5 **Here are the numbers of minutes that nine students took to eat lunch: 6, 9, 4, 9, 7, 5, 9, 8, 6. Work out (a) the mean, (b) the median, (c) the mode, (d) the range.**

(a) Mean

Answer:

(b) Median

Answer:

(c) Mode

Answer:

(d) Range

Answer:

6 **Four friends bought drinks costing £2.40, £1.80, £3.20 and £2.60. Work out the mean cost of a drink.**

Answer:

7 **Work out the missing number each time.**

(a) The mean of four numbers is 7. Three of them are 5, 8 and 9. Find the fourth number.

Answer:

(b) The mean of five numbers is 12. Four of them are 10, 15, 11 and 14. Find the fifth number.

Answer:

(c)

The mean mass of six parcels is 4.5 kg. Five parcels weigh 3, 5, 4, 6 and 4.5 kg. Find the mass of the sixth parcel.

Answer:

8 **Chloe sat five tests. Her scores were 14, 17, 12, 15 and 17 out of 20. She wants a mean of 15 after a sixth test. What score does she need in the sixth test?**

Answer:

9 **Five people earn £18 000, £20 000, £21 000, £22 000 and £150 000 a year. Which average, the mean or the median, gives a better idea of what the people typically earn? Give a reason.**

Answer:

10 **Aisha has to find the median of 3, 9, 4, 7 and 5. She says the median is 4 because it is the middle number in the list. Explain her mistake and work out the correct median.**

Answer:

11 **The list 4, 5, 6, 7, 8 has mean 6 and median 6. The number 8 is changed to 28, giving 4, 5, 6, 7, 28.**

(a) Work out the new mean.

Answer:

(b) Work out the new median.

Answer:

(c) Which average changed more?

Answer:

12 **Write down five numbers with a mean of 6 and a range of 7.**

Answer:

13 **Four whole numbers have a mean of 5, a median of 4.5 and a mode of 3. Find the four numbers, written in order.**

Answer:

© Websink Prep UK. Free for classroom and home use; please do not resell. websink.site