6.4 Averages: Mean, Median, Mode and Range: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Complete the frequency table and then calculate the mean age of the group. Ages and frequencies: age 10 frequency 2; age 11 frequency 3; age 12 frequency 4; age 13 frequency 1. Give the mean to 1 decimal place.

(a) Find the total number of pupils. **(1)**

.....

(b) Calculate the mean age. **(3)**

.....

2 Here are 5 numbers: 32, 12, 59, 51, 30.
Work out the median.

(2)

3 The mean of 6 numbers is 6. One of the numbers, 9, is removed. Work out the mean of the remaining 5 numbers.

(3)

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Mark scheme · 6.4 Averages: Mean, Median, Mode and Range: 10-minute Pack

Question 1

(a) total frequency 10 stated cao	**B1**

(a) Answer: **10**

(b) correct method: sum of age x frequency = 10*2 + 11*3 + 12*4 + 13*1 = 20 + 33 + 48 + 13 = 114 or equivalent	**M1**
(b) correct division by total frequency: 114/10 oe	**M1**
(b) 11.4 to 1 d.p. cao	**A1**

(b) Answer: **11.4**

Question 2

puts the numbers in order: 12, 30, 32, 51, 59	**M1**
32 cao	**A1**

Answer: **32**

Question 3

6 x 6 = 36	**M1**
(36 - 9) ÷ 5	**M1**
5.4 cao	**A1**

Answer: **5.4**

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