

MEAN, MEDIAN AND MODE

SKILLS QUESTIONS

3 AVERAGES

For each of the following sets of data, calculate the mean, the median, the mode and the range.

Q1 – BASKETBALL TEAM SCORES

120 110 132 129 123 114 102 105 126 128 139
94 126 137 133 127 112 126 98 138 80

Q2 – STUDENTS' HEIGHTS (CM)

160 160 176 163 156 156 164 178 160 146
159 175 172 167 162 160 153 158 173 125
190 175 174 160 167



Q3 – CRICKET TEAM RUNS

128 132 97 92 67 72 43 57 37 4 2

Q4 – HOT DOGS EATEN IN COMPETITION

12 32 45 11 12 1 15 30 22 12
11 12 17 3 8 10

Q5 – CHEERLEADERS'S AGES

22 23 27 18 20 28 18 19 20 23
23 28 29 19 17 18 27 28 30 18

Q6 – SAME MEAN, MEDIAN AND MODE

The mean, median, and mode are all equal for the set $\{3, 4, 5, 8, X\}$. What is the value of X ?

ANSWERS

QUESTION 1

$$\text{Mean} = 2279 \div 21 = 108.5$$

$$\text{Median} = 126$$

$$\text{Mode} = 126$$

$$\text{Range} = 59$$

QUESTION 2

$$\text{Mean} = 3668 \div 25 = 146.7 \text{ cm}$$

$$\text{Median} = 162 \text{ cm}$$

$$\text{Mode} = 160 \text{ cm}$$

$$\text{Range} = 65 \text{ cm}$$

QUESTION 3

$$\text{Mean} = 731 \div 11 = 66.45 \text{ runs}$$

$$\text{Median} = 67 \text{ runs}$$

$$\text{Mode} = \text{No mode}$$

$$\text{Range} = 126 \text{ runs}$$

QUESTION 4

$$\text{Mean} = 253 \div 16 = 15.8 \text{ hot dogs}$$

$$\text{Median} = 12 \text{ hotdogs}$$

$$\text{Mode} = 12 \text{ hot dogs}$$

$$\text{Range} = 44 \text{ hot dogs}$$

QUESTION 5

$$\text{Mean} = 455 \div 20 = 22.75 \text{ years}$$

$$\text{Median} = 22.5 \text{ years}$$

$$\text{Mode} = 18 \text{ years}$$

$$\text{Range} = 13 \text{ years}$$

QUESTION 6

$$\text{Mean, median and mode} = 5$$