UNIT E3 *Measures of Central Tendency* Mental Maths Questions

M E3 A

1. For the data

   2 1 3 2 4 3 2 6 4

   what is

   (a) the mean (3)

   (b) the median (3)

   (c) the mode (2)

   (d) the range? (5)

2. For the data

   4 6 7 11

   what is

   (a) the median ($6\frac{1}{2}$)

   (b) the mean? (7)

3. A football team's scoring record for 10 matches is

No. of goals	0	1	2	3	4	5 or more
Frequency	2	1	4	1	2	0

   What is the mean number of goals per match? (2)

4. The mean of three numbers is 2. A fourth number, 6, is added.
   What is the new mean value? (3)

5. When the number 5 is added to a set of 3 numbers, the mean value is 6.5.
   What is the mean of the original three numbers? (7)

6. The mean of a set of 4 numbers is 5. When one of the numbers is removed, the mean increases to 6. What is the value of the number removed? (2)

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UNIT E3 *Measures of Central Tendency* Mental Maths Questions

M E3 B

1. For the data

   2 4 1 8 1 9 3

   what is

   (a) the mean (4)

   (b) the median (3)

   (c) the mode (1)

   (d) the range? (8)

2. For the data

   13 8 2 1

   what is

   (a) the median (5)

   (b) the mean? (6)

3. The number of shots taken by 10 golfers at a particular hole is summarised below

No. of shots	0	1	2	3	4	5	6	7	8 or more
Frequency	0	0	1	2	5	1	0	1	0

   What is the mean number of shots taken at this hole? (4)

4. The mean of three numbers is 4. Another number, 8, is added.
   What is the new mean value? (5)

5. The mean of a set of 5 numbers is 3. One number is removed.
   If its value is 1, what is the new mean? (3.5)

6. When the number 2 is added to a set of 5 numbers, the mean value is 4.5.
   What is the mean value of the original set of numbers? (5)

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