DATA HANDLING
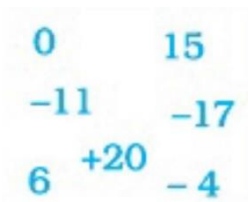## Subtopic: Representative Values, Arithmetic Mean

Section 1

1. Mark T for True and F for False

    1a. The range of the data 2, -5,4,3,7,6 would change if 2 was subtracted from each value in the data.

    1b. Arithmetic mean lies in between the greatest and smallest observation.

2. Choose the correct answer.

    2a. Some integers are marked on a board. What is the range of these integers?

    a) 31

    b) 37

    c) 20

    d) 30

    2b. Let x, y, z be three observations. The mean of the three observations is

    a) x **x** y **x** z / 3

    b) x + y + z / 3

    c) x – y – z / 3

    d) xy + z / 3

3. Fill in the blanks

    3a. The range of the data 9,3,8,2,6,2 is _____.

    3b. Per capita income is the _____ income of a nation's population.

4. Match the following.

Column 1	Column 2	Answer here	
a) First 6 odd natural numbers	1) 14	a)	
b) Mean of 160,137,149,153,161	2) 5.6	b)	
c) Mean of first 5 prime numbers	3) 152	c)	
d) Mean of first 6 multiples of 4	4) 4	d)	
e) Mean of the first 7 natural numbers	5) 18	e)	

Section 2

5. If the average of the given data 6,10,12, x,16 is 14. Find the value of x.

6. Find the range of the following data: 21,16,30,15,16,18,10,24,26,20.

7. The data of height (in cm) of students in the class are given as follows. 155, 160, 145, 149, 150, 147, 152, 144, 148. Calculate the arithmetic mean.

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8. Organise the following marks in a class assessment in a tabular form. 4,6,7,5,3,5,4,5,2,6,2,5,1,9,6,5,8,4,6,7. Which number is highest, which number is lowest and what is the range of the data?

Section 3

9. If the mean of the five observations x, x+4, x+6, x+8 and x+12 is 16. Find the value of x.

10. The mean of 40 numbers was found to be 38. Later, it was detected that a number 56 was misread as 36. Find the correct mean of the numbers.