

Name \_\_\_\_\_

Date \_\_\_\_\_

## Outliers in Data Sets - Guided Lesson Explanation

### Explanation#1

The average score by 25 students = 45

Total points scored by 25 students =  $45 \times 25 = 1125$

Average points scored by 20 students is 40

Total points scored by 20 students =  $40 \times 20 = 800$

$1125 - 800 = 325$  marks

The 5 outliers scored 325 totally.

Mean of score of 5 students is  $\frac{325}{5} = 65$  points.

### Explanation#2

The average marks of 50 students was 70 %.

Total marks scored by 50 students =  $70 \times 50 = 3500$

Average marks scored by 45 students due to miscalculation =  $45 \times 71 = 3195$

Total marks scored by 5 outlier students =  $3500 - 3195 = 305$

Mean marks of 5 students who scored low =  $\frac{305}{5} = 61$ .

### Explanation#3

The minimum temperature during the week was on Sunday i. e. 6.15.

The temperature of week excluding temperature on Sunday =  $65.6 - 6.15$   
 $= 59.45$

Mean temperature of 6 days in week =  $\frac{59.45}{6} = 9.91$ .

