

6.SP.3 Worksheet

Solutions

Refer to the following information to solve problems 1-8. Luca has 3 mice, Steve has 3 rats, Sarah has 4 hamsters, Dan has 4 guinea pigs, and Steve has 6 chinchillas. This distribution is shown on the following dot plot.

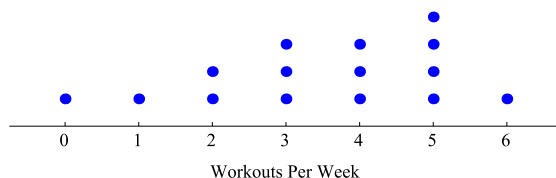


- Which whole number of rodents best represents the center of this distribution? **4 number cubes**
- Which whole number of rodents best represents a “typical” number in this distribution? **4 number cubes**
- If they put their rodents together, then divided the rodents equally among the four of them, how many rodents would each person have? **4 number cubes**
- Which whole number of rodents is the balance point of this distribution? **4 number cubes**
- Find each data value’s distance from the mean. This is the absolute value of the difference between the data value and the mean. Complete the following table.

Data Value	Distance from Mean
3	1
3	1
4	0
4	0
6	2

- Find the sum of the distances from the mean. **4**
- Find the mean absolute deviation. **$\frac{4}{5}$**
- What number best represents the variation in this distribution? **$\frac{2}{3}$**

Refer to the following information to solve problems 9-10. A group of 15 P.E. teachers were asked how many times per week they work out. This data is shown in the following dot plot.



- What is a typical number of workouts per week for this group of teachers? **Approximately 4 workouts per week**
- If the mean of this data set is approximately 3.5 workouts per week, which of the following is a reasonable estimate for the mean absolute deviation?
 - (A) -2 workouts
 - (B) 0.5 workouts
 - (C) 1.5 workouts
 - (D) 3 workouts**(C) 1.5 workouts**