**Ch 11 Statistical Measures Study Guide, Form 2B**

**Write the letter for the correct answer in the blank at the right of each question.**

**The table shows the number of hours Ladena spent sleeping each night for 12 nights. Use the table to answer Exercises 1-3.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Hours Spent Sleeping** | | | |
| 8 | 6 | 7 | 7 |
| 10 | 8 | 8 | 10 |
| 8 | 8 | 5 | 7 |

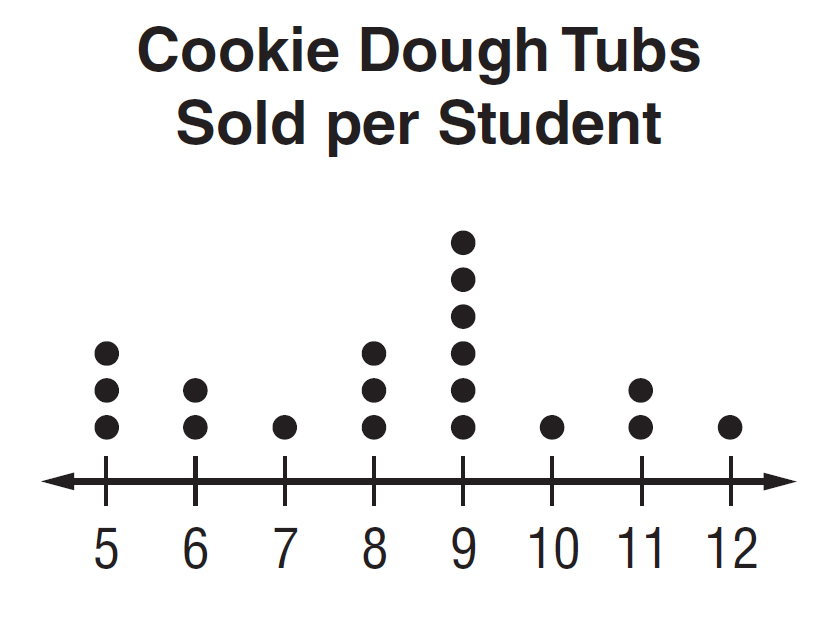
**1.** What is the mean of the data? Round to the nearest tenth.

**A.** 7.5 **B.** 7.6 **C.** 7.7 **D.** 8.2

**2.** What is the median of the data?

**3.** What is the mode of the data?

**Refer to the dot plot to answer Exercises 4 and 5.**



**4.** What is the median of the data?

**F.** 7 **G.** 8 **H.** 9 **I.** 10

**5.** What is the mode of the data?

**A.** 5 **B.** 7 **C.** 8 **D.** 9

**6.** Define each vocabulary word below.

**F.** third quartile **H.** interquartile range

**G.** first quartile **I.** range

**1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6.**

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**Use the table for Exercises 7-9.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dress Costs ($)** | | | |
| 38 | 50 | 32 | 42 |
| 50 | 32 | 75 | 50 |

**7.** What is the mean of the data?

**A.** $369 **B.** $46 **C.** $46.12 **D.** $46.13

**8.** Which measure of center best describes the data?

**F.** mean **G.** median **H.** mode **I.** range

**9.** What is the mean cost without the outlier? Show all work to find the outlier. Round to the nearest cent if necessary.

**A.** $29.40 **B.** $36.75 **C.** $38 **D.** $42

**Exercises 10-12: Use the following set of data: 20, 28, 30, 6, 15, 18, 21, 22, 25, 29, 24, 26.**

**10.** What are the first and third quartiles of the data?

**11.** What is the interquartile range of the data?

**12.** Are there any outliers in the data set? **Show all work and limits**.

**13.** Katherine earned 90, 84, 78, 88 and 85 on her first 5 tests. What is the minimum grade Katherine needs to earn on the next test to have a mean of 86? **Show all work.**

**14.**  Which measure of center would you use to describe a data set with…

- no outliers \_\_\_\_\_\_\_\_\_\_\_\_\_ - outliers \_\_\_\_\_\_\_\_\_\_\_\_\_

**7.\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10. 1st: \_\_\_\_\_\_\_\_\_\_**

**3rd: \_\_\_\_\_\_\_\_\_\_**

**11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**12. \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_**