

Chapter 12 Test

Choose the term from the list on the right that best matches the description given on the left. Each term may be used more than once or not at all.

- | | |
|---|--|
| <p>1. ____ A score that is much higher or lower than the rest of the scores.</p> <p>2. ____ This is the middle number in a data set.</p> <p>3. ____ This is the most frequent value in a data set.</p> <p>4. ____ This is used to organize large sets of data.</p> <p>5. ____ This is the difference between the lowest and highest scores.</p> | <p>A frequency table</p> <p>B mean</p> <p>C measure of central tendency</p> <p>D median</p> <p>E mode</p> <p>F outlier</p> <p>G range</p> |
|---|--|

For #6 to #10, circle the best answer.

6. Sara is a 100 m sprinter. Her times in the last seven races were (in seconds): 15.0, 14.5, 14.0, 15.0, 15.5, 13.8, 14.6. Find Sara's median time.
- A** 15.5 **B** 15 **C** 14.63 **D** 14.6

Use the table below to answer #7 to #10. The table shows how many minutes Amelia spent doing homework each night over two weeks.

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
30	0	75	70	70	35	25
40	15	85	75	75	45	30

7. What was the mean time that Amelia spent each night doing homework?
- A** 47.9 min **B** 51.5 min **C** 75 min **D** 85 min
8. Which amount of time could Amelia consider as an outlier?
- A** 0 min **B** 15 min **C** 75 min **D** 85 min
9. Which of the following is the most likely reason for the amount of time Amelia spent doing homework on the two Monday nights?
- A** On all of the other nights, she goes to clubs.
- B** She does not spend much time doing homework on most days.
- C** She has soccer practices on Monday nights that go quite late.
- D** The teacher never assigns much homework.

Name: _____

Date: _____

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(continued)

- 10.** What is the mode for the data set showing Amelia’s homework times?
A 42.5 min **B** 47.9 min **C** 70 min **D** 75 min

Short Answer

- 11.** Find the mode and mean of the set of data: 3, 5, 8, 12, 12, 14.

- 12.** The tally chart shows the average daily temperature and the number of days in the month with that temperature. Find the median temperature for the month and the range of the data.

Average Temperature (°C)	Number of Days
12	IIII
13	III I
14	IIII
15	III II
16	III IIII

Extended Response

- 13.** A Grade 7 class is surveyed. Each student is asked, “How many siblings (brothers and

Number of Siblings	0	1	2	3	4	5	6	7
Tally	III I	III III I	III II	IIII	I			I

sisters) do you have?” The results are shown in the chart.

- a)** Determine the mean, the median, the mode, and the range.
- b)** Are there any outliers in the data? If so, should the outlier be removed from the data set? Explain your answer.
- 14.** Students’ scores for a French test were 40, 42, 55, 56, 59, 68, 74, 76, 77, 78, 79, 81, 83, 87, 87, 87, 88, 93, 95, and 95. All scores are percents.
- a)** Determine the mean, the mode, and the median.
- b)** Marco receives 76%. His mom asks him how he did on the test compared to the rest of the class. Which of the mean, mode, or median should he tell his mom if he wants to make his results look good? Explain why.