Standardized Test Practice
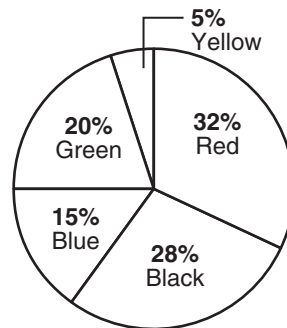
Read each question. Then fill in the correct answer on the answer sheet provided by your teacher or on a sheet of paper.

1. Which of the following is the best to display data that is divided into equal intervals?

A. bar graph

B. box plot

C. histogram

D. line plot

2. The table shows the number of wins the Bears baseball team had in the last 4 seasons. What is the mean number of wins?
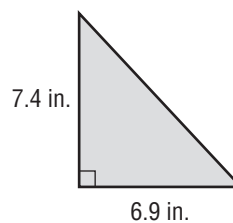
Year	2007	2008	2009	2010
Wins	6	7	13	10

F. 6

G. 9

H. 10

I. 13

3. Titus ate $\frac{3}{8}$ of a lasagna. If the lasagna was divided into 16 equal sections, how many sections did Titus eat?

A. 6

B. 8

C. 10

D. 16

4. ▨ **SHORT RESPONSE** Ethan and two friends are going to split the cost of a video game equally. How much will each person pay if the cost of the video game is $48.36?

5. ▨ **GRIDDED RESPONSE** What is mode of the data set?
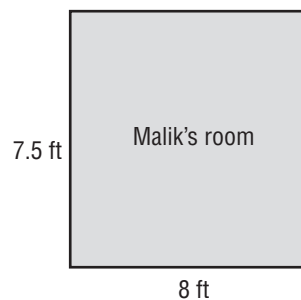
number of cars: 12, 15, 17, 18, 12

6. The circle graph shows the percentages of the colors of cars purchased at a car dealership. What fraction of the cars purchased are red?

F. $\frac{1}{2}$

G. $\frac{47}{100}$

H. $\frac{17}{50}$

I. $\frac{8}{25}$

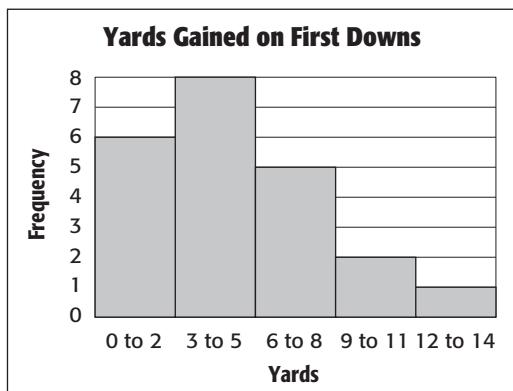**7.** ▨ **SHORT RESPONSE** What is the area of the triangle below?

8. Malik was estimating the area of his room to replace the carpet. Which measurement would be a reasonable estimate of the area of his room?

A. 15 square feet

B. 20 square feet

C. 64 square feet

D. 72 square feet

9. ✎ **GRIDDED RESPONSE** Six out of every 25 students usually receive an A on the history test. Predict the number of students out of 125 that received an A on the history test.

10. The histogram shows the number of yards gained on first downs. How many times did the team gain at least 6 yards on first downs?

Yards Gained on First Downs

   F. 9

   G. 8

   H. 7

   I. 4

11. Which of the following would you use to describe the center of a data set, if the data set is symmetric?

   A. median

   B. mode

   C. range

   D. mean

12. **THINK SOLVE EXPLAIN** **SHORT RESPONSE** The volume of a rectangular prism is 336 cubic centimeters. The prism has a length of 8 centimeters and a width of 6 centimeters. What is the height of the prism?

13. On a field trip, there is one adult for every 8 students. There are 136 students on the field trip. Which equivalent ratio could be used to find the number of adults?

Students	Adults
8	1
16	2
136	■

   F. $\dfrac{■}{8} = \dfrac{1}{136}$

   G. $\dfrac{1}{8} = \dfrac{■}{136}$

   H. $\dfrac{8}{1} = \dfrac{■}{136}$

   I. $\dfrac{■}{1} = \dfrac{8}{136}$

14. **THINK SOLVE EXPLAIN** **EXTENDED RESPONSE** Kamilah is researching the number of channels available from different cable and satellite companies. The table shows the results.

Company	Number of Channels
A	265
B	70
C	85
D	120
E	135

   Part A Select and make an appropriate display that best represents the data.

   Part B Find the mean, median, mode, and range.

   Part C How does the outlier affect the values you found for Part B?