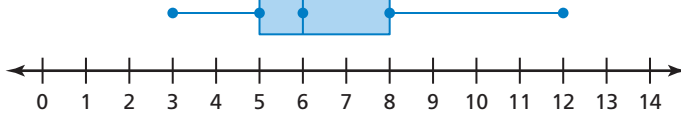


7 Standardized Test Practice

1. Research scientists are measuring the number of days lettuce seeds take to germinate. In a study, 500 seeds were planted. Of these, 473 seeds germinated. The box-and-whisker plot summarizes the number of days it took the seeds to germinate. What can you conclude from the box-and-whisker plot?



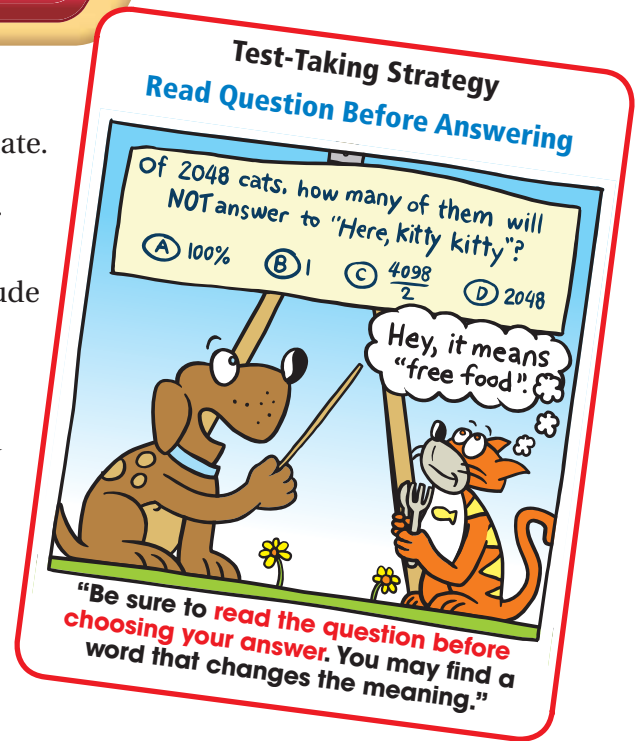
- A. The median number of days for the seeds to germinate is 12.
- B. 50% of the seeds took more than 8 days to germinate.
- C. 50% of the seeds took less than 5 days to germinate.
- D. The median number of days for the seeds to germinate was 6.
2. An object dropped from a height will fall under the force of gravity. The time t , in seconds, it takes to fall a distance d , in feet, can be found using the formula below.

$$t = \frac{\sqrt{d}}{4}$$

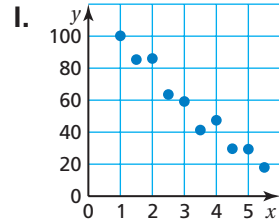
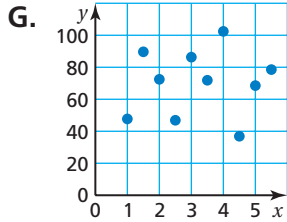
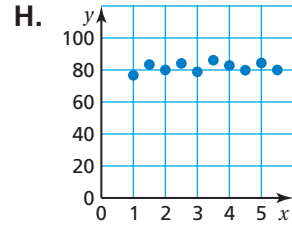
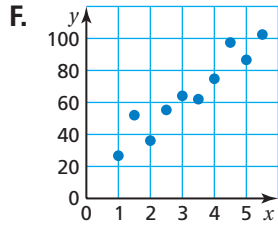
A ball is dropped from the top of a building that is 40 feet tall. Approximately how many seconds will it take for the ball to reach the ground?

- F. 1.6 sec
- G. 3.2 sec
- H. 5 sec
- I. 6.3 sec
3. A plumber charges a fixed amount for a house call plus an amount based on the number of hours worked. A job lasting 1 hour costs \$95 and a job lasting 2 hours costs \$140. What is the fixed amount charged by the plumber?

- A. \$45
- B. \$50
- C. \$70
- D. \$95



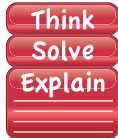
9. Which scatter plot shows a negative relationship between x and y ?



10. The legs of a right triangle have the lengths of 8 centimeters and 15 centimeters. What is the length of the hypotenuse, in centimeters?



11. The 16 members of a camera club have the ages listed below.



40, 22, 24, 58, 30, 31, 37, 25, 62, 40, 39, 37, 28, 28, 51, 44

Part A Order the ages from least to greatest.

Part B Find the median of the ages.

Part C Make a box-and-whisker plot for the ages of the camera club members.

