

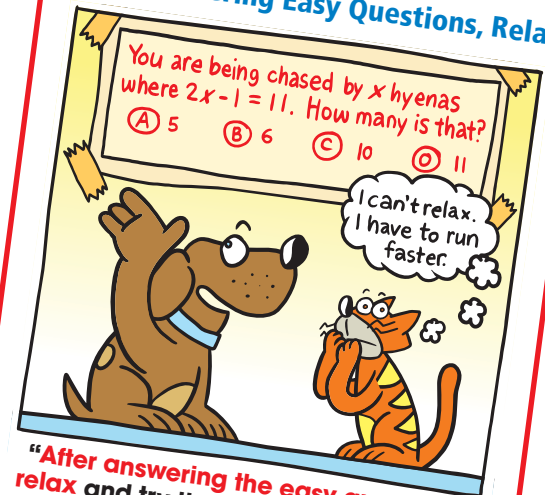
# 7 Standardized Test Practice

1. Which description is a correct way to solve the equation below?

$$\frac{x}{6} + 15 = 57$$

- A. Add 15 to both sides and then divide both sides by 6.
- B. Multiply both sides by 6 and then subtract 15 from both sides.
- C. Subtract 15 from both sides and then divide both sides by 6.
- D. Subtract 15 from both sides and then multiply both sides by 6.

## Test-Taking Strategy After Answering Easy Questions, Relax



**"After answering the easy questions, relax and try the harder ones. For this,  $2x = 12$ , so  $x = 6$  hyenas."**

2. What is the value of the expression below when  $g = 6$ ?

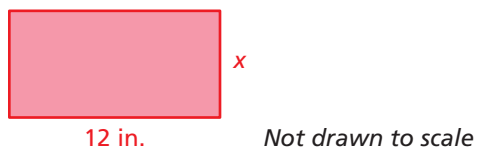
$$\frac{4g + 8}{2}$$

- F. 16
  - G. 20
  - H. 27
  - I. 28
3. What is the value of  $m$  that makes the equation below true?



$$4m = 6$$

4. A rectangle and one of its dimensions are shown below.



The perimeter of the rectangle is 26 inches. What is the value of  $x$ ?

- A. 14 in.
- B. 13 in.
- C. 2 in.
- D. 1 in.

5. Which fraction is equivalent to 0.35?

F.  $\frac{1}{35}$

H.  $\frac{3}{5}$

G.  $\frac{7}{20}$

I.  $\frac{5}{7}$

6. Helene was finding the percent of a number in the box below.

What is 8% of 24?

$$x = 24 \div 0.08$$

$$x = 300$$

What should Helene do to correct the error that she made?

A. Divide 24 by 8.

C. Multiply 24 by 0.8.

B. Divide 24 by 0.8.

D. Multiply 24 by 0.08.

7. Stock prices on the New York Stock Exchange used to be fractions with denominators of 2, 4, and 8 instead of decimals. What would be the total cost of 100 shares (units) of a stock with a price of  $\$16\frac{5}{8}$  per share?

F. \$1600.58

H. \$1658.00

G. \$1600.63

I. \$1662.50

8. What is the value of  $p$  that makes the equation below true?



$$25 = 5p - 15$$

9. The cost of a bowling party for 12 friends was \$133. After using a coupon for \$25 off the cost of the party, the 12 friends shared the remaining cost equally.

Let  $f$  represent the amount of money, in dollars, that each friend paid. Which equation can be used to correctly determine the value of  $f$ ?

A.  $12f + 25 = 133$

C.  $\frac{f}{12} + 25 = 133$

B.  $12f - 25 = 133$

D.  $\frac{f}{12} - 25 = 133$

10. What percent discount is the store offering?

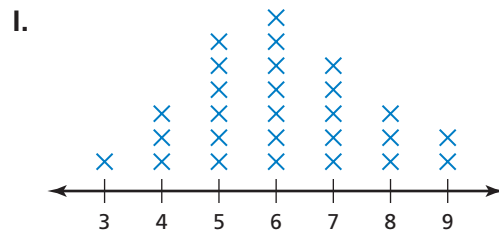
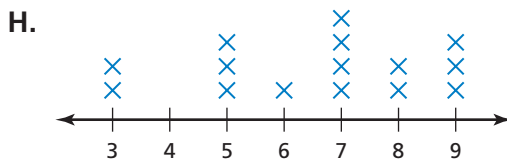
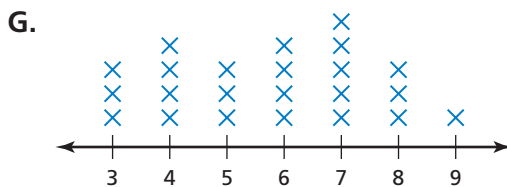
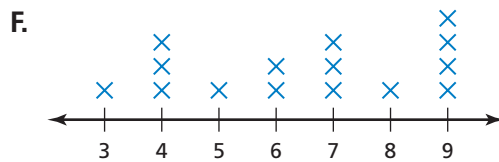
- F.  $\frac{1}{3}\%$                       H. 33%  
 G. 13%                        I.  $33\frac{1}{3}\%$



11. Which list of numbers is in order from least to greatest?

- A. 0.6, 0.08,  $\frac{1}{7}$ ,  $\frac{1}{10}$ , 9%, 12%                      C. 0.6,  $\frac{1}{7}$ , 0.08, 9%,  $\frac{1}{10}$ , 12%  
 B. 0.08, 9%,  $\frac{1}{10}$ , 12%,  $\frac{1}{7}$ , 0.6                      D.  $\frac{1}{7}$ , 0.08,  $\frac{1}{10}$ , 12%, 0.6, 9%

12. Which line plot represents a set of data that has a median of 7 and a mode of 7?



13. A right rectangular prism has a volume of 324 cubic inches and a height of 9 inches. Determine *two* possible pairs of measurements, in inches, for the length and width of the base of the prism. For *each* pair of measurements, show your work and explain your reasoning.

**Think**  
**Solve**  
**Explain**