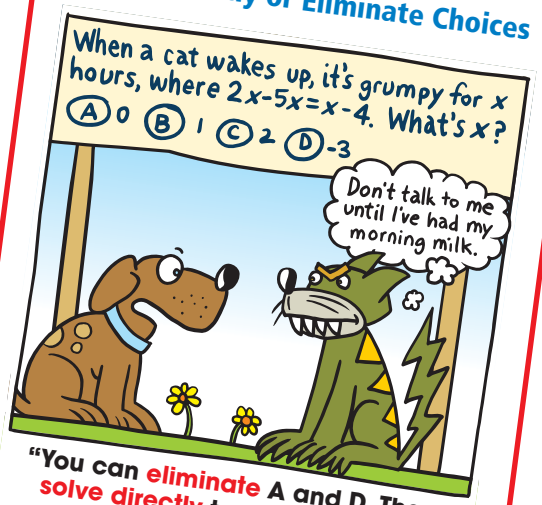
English Spanish

1 Standardized Test Practice

Test-Taking Strategy

Solve Directly or Eliminate Choices



"You can **eliminate** A and D. Then, **solve directly** to determine that the correct answer is B."

1. Which value of x makes the equation true?

$$4x = 32$$

A. 8 **C.** 36

B. 28 **D.** 128

2. A taxi ride costs \$3 plus \$2 for each mile driven. When you rode in a taxi, the total cost was \$39. This can be modeled by the equation below, where m represents the number of miles driven.

$$2m + 3 = 39$$

How long was your taxi ride?

F. 72 mi **H.** 21 mi

G. 34 mi **I.** 18 mi

3. One fluid ounce (fl oz) contains 6 teaspoons. You add $\frac{1}{4}$ teaspoon of vanilla each time you make hot chocolate. How many times can you make hot chocolate using the bottle of vanilla shown?

A. 6 **C.** 40

B. 24 **D.** 96

4. A bicyclist is riding at a speed of 900 feet per minute. How many yards does the bicyclist ride in 1 second?

5. The formula below relates distance, rate, and time.

$$d = rt$$

Solve this formula for t.

F. $t = dr$ **H.** $t = d - r$

G. $t = \frac{d}{r}$ **I.** $t = \frac{r}{d}$

6. What could be the first step to solve the equation shown below?

$$3x + 5 = 2(x + 7)$$

A. Combine $3x$ and 5.

B. Multiply x by 2 and 7 by 2.

C. Subtract x from $3x$.

D. Subtract 5 from 7.

7. You work as a sales representative. You earn \$400 per week plus 5% of your total sales for the week.

Think Solve Explain

Part A Last week, you had total sales of \$5000. Find your total earnings. Show your work.

Part B One week, you earned \$1350. Let s represent your total sales that week. Write an equation that could be used to find s.

Part C Using your equation from Part B, find s. Show all steps clearly.

8. In ten years, Maria will be 39 years old. Let m represent Maria's age today. Which equation can be used to find m?

F. $m = 39 + 10$

G. $m - 10 = 39$

H. $m + 10 = 39$

I. $10m = 39$

9. Which value of y makes the equation below true?

$$3y + 8 = 7y + 11$$

A. -4.75

B. -0.75

C. 0.75

D. 4.75

10. The equation below is used to convert a Fahrenheit temperature F to its equivalent Celsius temperature C.

$$C = \frac{5}{9}(F - 32)$$

Which formula can be used to convert a Celsius temperature to its equivalent Fahrenheit temperature?

F. $F = \frac{5}{9}(C - 32)$

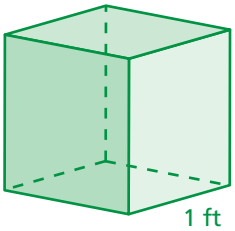
G. $F = \frac{9}{5}(C + 32)$

H. $F = \frac{9}{5}C + \frac{32}{5}$

I. $F = \frac{9}{5}C + 32$

11. You have already saved \$35 for a new cell phone. You need \$175 in all. You think you can save \$10 per week. At this rate, how many more weeks will you need to save money before you can buy the new cell phone?

12. The cube shown below has edge lengths of 1 foot. What is the volume of the cube?



A. 12 in.^{3}

B. 36 in.^{3}

C. 144 in.^{3}

D. 1728 in.^{3}

13. Which value of x makes the equation below true?

$$6(x - 3) = 4x - 7$$

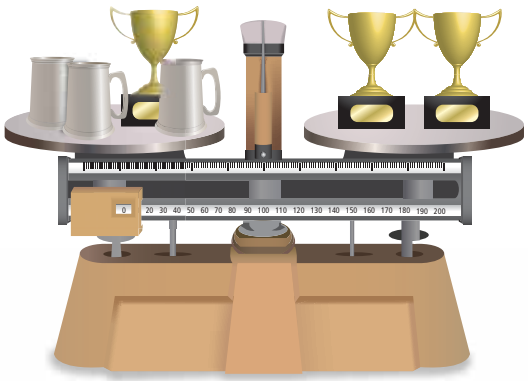
F. -5.5

G. -2

H. 1.1

I. 5.5

14. The drawing below shows equal weights on two sides of a balance scale.



What can you conclude from the drawing?

A. A mug weighs one-third as much as a trophy.

B. A mug weighs one-half as much as a trophy.

C. A mug weighs twice as much as a trophy.

D. A mug weighs three times as much as a trophy.