

8 Standardized Test Practice

1. Which decimal is closest to the value of the expression below?

$$0.21 \times 0.31 \times 0.049$$

- A. 0.003 C. 0.0000003
 B. 0.0003 D. 0.00000003
2. What is 50% of 25?
- F. 2.5 H. 12.5
 G. 5 I. 50

3. What is the greatest whole number value of x that will make the inequality below true?



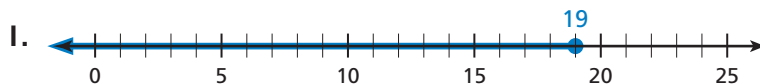
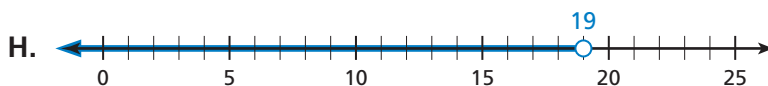
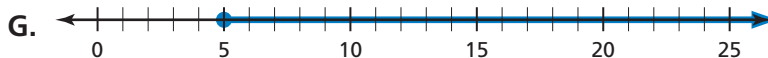
$$7x < 42$$

4. Which equation represents the word sentence below?

The sum of 18 and 5 is equal to 9 less than the product of 3 and a number y .

- A. $18 - 5 = 9 - 3y$ C. $18 + 5 = 3y - 9$
 B. $18 + 5 = 9 - 3y$ D. $18 + 5 = \frac{y}{3} - 9$
5. Which number line is a graph of the solution to the inequality below?

$$x + 7 \geq 12$$



Test-Taking Strategy
Work Backwards

You like taking x catnaps each day, where $3x = 24$. How many is that?
 (A) 6 (B) 7 (C) 8 (D) 9

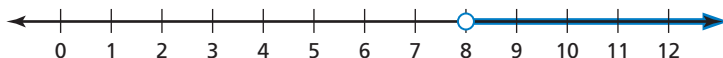
“Work backwards by trying 6, 7, 8, and 9. You will see that $3(8) = 24$. So, C is correct.”

6. Your friend was solving the inequality in the box below.

$$\begin{aligned} 15 &\leq 6n - 9 \\ 24 &\leq 6n \\ n &\leq 4 \end{aligned}$$

What should your friend do to correct the error that she made?

- A. Rewrite the answer as $n \geq 4$.
- B. Multiply both sides of the inequality by 6.
- C. Subtract 9 from both sides of the inequality.
- D. Rewrite the given inequality as $6n - 9 \leq 15$.
7. An inequality is graphed on the number line below.



What is the least whole number value that is a solution to the inequality?

8. A recipe for pizza dough requires $4\frac{1}{2}$ cups of flour per pizza. How many cups of flour are required to make 5 pizzas using this recipe?
- F. $9\frac{1}{2}$ cups
- G. $20\frac{1}{2}$ cups
- H. $20\frac{2}{5}$ cups
- I. $22\frac{1}{2}$ cups
9. A hockey puck and its diameter are shown below.



What is the circumference of the hockey puck? (Use 3.14 for π .)

- A. 9.42 in.
- B. 7.07 in.
- C. 6.14 in.
- D. 4.71 in.

