Standardized Test Practice

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

0.21 imes 0.31 imes 0.049

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





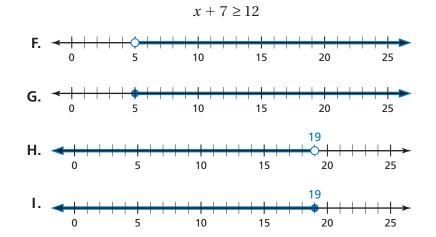
3. What is the greatest whole number value of *x* that will make the inequality below true?

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



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

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

- **A.** Rewrite the answer as $n \ge 4$.
- **B.** Multiply both sides of the inequality by 6.
- C. Subtract 9 from both sides of the inequality.
- **D.** Rewrite the given inequality as $6n 9 \le 15$.
- 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
 H. $20\frac{2}{5}$ cups

 G. $20\frac{1}{2}$ 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 .)

Α.	9.42 in.	C. 6.14 in.
В.	7.07 in.	D. 4.71 in.

10. In the mural below, the squares that are painted red are marked with the letter R.

R	R	R											R	R	R
R	R	R											R	R	R
R	R	R											R	R	R
					R	R	R	R	R	R					
					R	R	R	R	R	R					
R	R	R											R	R	R
R	R	R											R	R	R
R	R	R											R	R	R

.....

What percent of the mural is painted red?

~ . ~

F.	24%		н.	48%
-				

- **G.** 25% **I.** 50%
- 11. Jeff wants to save enough money to buy a used car. He has already saved
 \$750, and he plans to continue to save \$150 per week. He plans to spend at least \$4000 on a used car.
 - *Part A* Write an inequality to represent the number of weeks it will take Jeff to be able to afford a used car. Explain your reasoning.
 - *Part B* How many weeks will it take Jeff to be able to afford a used car? Show your work and explain your reasoning.

Jeff plans to save $\frac{3}{4}$ of what he earns at his job. He can work 20 hours per week.

- *Part C* Write an equation to represent the amount per hour that Jeff must earn to save \$150 per week. Explain your reasoning.
- *Part D* What is the amount per hour that Jeff must earn? Show your work and explain your reasoning.