

# Standardized Test Practice

(Chapters 1–8)

## Part 1: Multiple Choice

Instructions: Fill in the appropriate circle for the best answer.

- If  $\frac{x}{8} > x$ , which could be a value for  $x$ ?

A -1                      B 0                      C 2                      D  $\frac{1}{4}$                       1.  A  B  C  D
- If  $0 < a < 1$ , which of the following increases as  $a$  decreases?

F  $a - 1$                       G  $a^2 - 1$                       H  $\frac{1}{a}$                       J  $a^2$                       2.  F  G  H  J
- If  $3x - 2$  is an odd integer, what is the next consecutive odd integer?

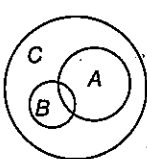
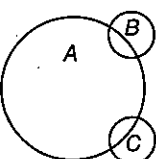
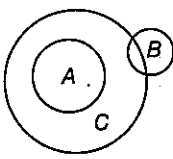
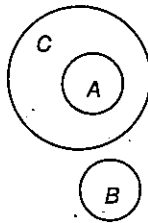
A  $3x - 1$                       B  $3x - 3$                       C  $3x + 1$                       D  $3x$                       3.  A  B  C  D
- Jody sold 4 more than twice the number of cars that Laura sold. If Laura sold  $c$  cars, how many more did Jody sell than Laura?

F 4                      G  $c + 4$                       H  $3c + 4$                       J  $2c + 4$                       4.  F  G  H  J
- If  $8 - 3z = 16 + 5z$ , then what is the value of  $4z$ ?

A -16                      B -4                      C 1                      D 12                      5.  A  B  C  D
- The radius of a wheel is 6 inches. How many revolutions will it make if it is rolled a distance of  $288\pi$  inches?

F 8                      G  $8\pi$                       H 24                      J  $24\pi$                       6.  F  G  H  J
- What is the 8th term in the sequence 3, 2, 0, -4, -12, ...?

A -124                      B -60                      C -36                      D -144                      7.  A  B  C  D
- Which Venn diagram models the relationships among the sets  $A = \{1, 2, 3\}$ ,  $B = \{-4, 0\}$ , and  $C = \{\text{positive integers}\}$ ?

F                       G                       H                       J                       8.  F  G  H  J
- A total of \$270 is to be divided among four children. Each will receive an amount that is proportional to his or her age. If the children are 5, 10, 14, and 16 years old, how much money does the youngest child receive?

A \$96                      B \$6                      C \$30                      D \$54                      9.  A  B  C  D
- If  $m^2 + n^2 = 140$  and  $mn = 49$ , what is the value of  $(m - n)^2$ ?

F 0                      G 24                      H 238                      J 42                      10.  F  G  H  J

