

**Part 1: Multiple Choice****Instructions:** Fill in the appropriate circle for the best answer.

1. Which is a true sentence? (Lesson 1-3)
 

A  $|-10| < |-6|$ 
C  $-8 > 32$ 
1. ☐ A ☐ B ☐ C ☐ D

B  $-25 < -10$ 
D  $0 < -2$
2. What is the perimeter of a right triangle if the hypotenuse is 51 inches and one leg is 24 inches? (Lesson 3-5)
 

F 45 in.
G 120 in.
H 75 in.
J 540 in.
2. ☐ F ☐ G ☐ H ☐ J
3. Express the ratio 20:35 in simplest form. (Lesson 4-1)
 

A 5:7
B 4:7
C 2:5
D 20:35
3. ☐ A ☐ B ☐ C ☐ D
4. The distance between two cities on a map is 6.1 centimeters. Find the actual distance if the scale on the map is 3 centimeters = 24 kilometers. (Lesson 4-8)
 

F 1,464 kilometers
H 146.4 kilometers
4. ☐ F ☐ G ☐ H ☐ J

G 48.8 kilometers
J 50 kilometers
5. Express 16% as a fraction in simplest form. (Lesson 5-1)
 

A  $\frac{1}{16}$ 
B  $\frac{16}{100}$ 
C  $\frac{4}{25}$ 
D  $\frac{8}{50}$ 
5. ☐ A ☐ B ☐ C ☐ D
6. A party store conducted a survey to find out how many families decorated their homes for fall. Of the 260 families surveyed, 30% said they decorated. How many families decorated? (Lesson 5-7)
 

F 290
G 8.7
H 34
J 78
6. ☐ F ☐ G ☐ H ☐ J
7. The length of the hypotenuse of a 30°-60° right triangle is 12 inches. Find the length of the side opposite the 30° angle. (Lesson 6-3)
 

A 6°
B 4 in.
C 4°
D 6 in.
7. ☐ A ☐ B ☐ C ☐ D
8. Find the sum of the measures of the interior angles of a 19-gon. (Lesson 6-3)
 

F 180°
G 19°
H 3420°
J 3060°
8. ☐ F ☐ G ☐ H ☐ J
9. Triangle  $PQR$  is translated left 2 units and down 6 units. The coordinates of  $P$  are (1, 3). What are the coordinates of  $P'$ ? (Lesson 6-7)
 

A (1, -3)
B (-3, -1)
C (-1, -3)
D (-1, 3)
9. ☐ A ☐ B ☐ C ☐ D
10. Solve  $8x = -92$ . (Lesson 1-10)
 

F 46
G -100
H -11.5
J -84
10. ☐ F ☐ G ☐ H ☐ J

## 6

## Standardized Test Practice (continued)

11. Order the numbers  $\frac{5}{9}$ ,  $0.46$ ,  $\frac{1}{3}$ ,  $\frac{4}{13}$ , and  $0.2$  from least to greatest.  
(Lesson 2-2)

A  $\frac{4}{13}$ ,  $0.2$ ,  $\frac{1}{3}$ ,  $\frac{5}{9}$ ,  $0.46$

C  $\frac{5}{9}$ ,  $0.46$ ,  $\frac{1}{3}$ ,  $\frac{4}{13}$ ,  $0.2$

B  $0.2$ ,  $\frac{4}{13}$ ,  $\frac{1}{3}$ ,  $0.46$ ,  $\frac{5}{9}$

D  $0.2$ ,  $0.46$ ,  $\frac{1}{3}$ ,  $\frac{4}{13}$ ,  $\frac{5}{9}$

11. A B C D

12. Estimate the solution to  $a^2 = 85$  to the nearest whole number  
(Lesson 3-2)

F 9 or -9

G 8 or -8

H 43

J 160

12. F G H J

13. Find the distance between the points  $(7, -6)$  and  $(-1, 2)$ . Round to the nearest tenth. (Lesson 3-7)

A 64

B 8

C 11.3

D 12

13. A B C D

14. The points given in the table lie on a line. Find the rate of change of the line. (Lesson 4-9)

|     |    |   |   |   |   |
|-----|----|---|---|---|---|
| $x$ | 2  | 3 | 4 | 5 | 6 |
| $y$ | -1 | 1 | 3 | 5 | 7 |

F 0

H -1

G -5

J 2

14. F G H J

15. Solve  $\frac{0.30}{z} = \frac{2}{40}$ . (Lesson 4-3)

A 3

B 6

C 20

D 40

15. A B C D

16. Write 169% as a decimal. (Lesson 5-2)

F 0.0169

G 16.9

H 0.169

J 1.69

16. F G H J

17. **SAVINGS** Dora saves 25% of her baby-sitting income. If she saved \$58 last month, how much did she earn? (Lesson 5-7)

A \$25

B \$232

C \$58

D \$174

17. A B C D

18. Evaluate  $s^3 \cdot t^4$  if  $s = 5$  and  $t = 2$ . (Lesson 2-9)

F 120

G 1,250

H 2,000

J 3,888

18. F G H J

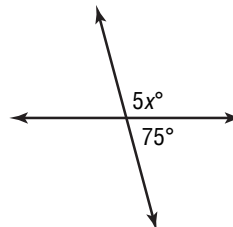
19. Find the value of  $x$  in the figure. (Lesson 6-1)

A 16

B 20

C 95

D 100



19. A B C D