

Part 1: Multiple Choice

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

1. Write
- $4.\overline{7}$
- as a mixed number in simplest form. (Lesson 2-1)

A $4\frac{7}{10}$

B $4\frac{7}{9}$

C $4\frac{4}{5}$

D $4\frac{9}{10}$

1. A B C D

2. Evaluate
- $m^2 \cdot n^4$
- if
- $m = 8$
- and
- $n = 3$
- . (Lesson 2-9)

F 145

G 192

H 5,184

J 36,864

2. F G H J

3. Write 256 million in scientific notation. (Lesson 2-10)

A 2.56×10^{-8}

B 256×10^{-8}

C 2.56×10^8

D 256×10^8

3. A B C D

4. Which is the best estimate of
- $\sqrt{131}$
- ? (Lesson 3-2)

F 10

G 11

H 12

J 65

4. F G H J

- 5.
- GEOMETRY**
- Find the length of the diagonal of the rectangle to the nearest tenth. (Lesson 3-6)

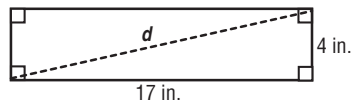
A 13.5 in.

B 17.1 in.

C 17.5 in.

D 21.7 in.

5. A B C D



6. Find the distance between the points
- P
- and
- Q
- . (Lesson 3-7)

F 8.5 units

H 7.2 units

G 4.5 units

J 6 units

14.5

6. F G H J

7. Express 400 meters in 125 seconds as a unit rate. (Lesson 4-1)

A 5 to 16

C 32 m/10 s

B 3.2 m/s

D 16 to 5

7. A B C D

8. Express \$71.10 for 18 pounds of potatoes as a unit rate. (Lesson 4-1)

F 71 to 18

G \$4.10/m

H \$3.95/lb

J 36 to 9

8. F G H J

9. Maria's meatloaf recipe calls for 1 lb of ground beef for a 4-person serving. Maria has volunteered to bring meatloaf to feed 26 people at her company potluck. How many pounds of ground beef should Maria buy? (Lesson 4-3)

A 5 lb

B 5.5 lb

C 6 lb

D 6.5 lb

9. A B C D

10. For which scale would a scale model of a statue appear
- $\frac{1}{3}$
- the size of the actual statue? (Lesson 4-8)

F 3 in. = 6 ft

H 3 in. = 12 ft

G 3 in. = 3 yd

J 1 ft = 1 yd

10. F G H J

5**Standardized Test Practice** *(continued)*

- 11.**
- Express 35% as a fraction and as a decimal. (Lesson 5-2)

A $\frac{35}{1,000}$; 0.35

C $\frac{35}{100}$; 0.35

B $\frac{35}{100}$; 35

D $\frac{3.5}{100}$; 3.5

11. Ⓐ Ⓑ Ⓒ Ⓓ

- 12.**
- Write
- $\frac{4}{25}$
- as a percent. (Lesson 5-1)

F 5%

H 20%

G 16%

J 25%

12. Ⓕ Ⓖ Ⓗ Ⓙ

- 13.**
- Find 30% of 89. (Lesson 5-3)

A 2.25

C 26.7

B 25.6

D 30

13. Ⓐ Ⓑ Ⓒ Ⓓ

- 14.**
- 18 boys make up 60% of an seventh-grade class. What equation can be used to find
- T
- , the total number of students in the class? (Lesson 5-3)

F $\frac{18}{60} = 100T$

H $\frac{18}{T} = \frac{60}{100}$

G $\frac{100}{60} = \frac{18}{T}$

J $\frac{40}{100} = \frac{T}{18}$

14. Ⓕ Ⓖ Ⓗ Ⓙ

- 15.**
- An electronics store marks up the price of a new compact disc player by 15%. Find the markup on a disc player that the store purchased for \$85. (Lesson 5-7)

A \$15

C \$72.25

B \$12.75

D \$97.75

15. Ⓐ Ⓑ Ⓒ Ⓓ

- 16.**
- Find the markup rate on a \$12 book that sells for \$21. (Lesson 5-8)

F 43%

H 57%

G 50%

J 75%

16. Ⓕ Ⓖ Ⓗ Ⓙ

- 17.**
- Find
- $6\frac{2}{3} \div (3\frac{1}{3})$
- .

A $\frac{1}{2}$

C 2

B $\frac{9}{5}$

D $\frac{200}{9}$

17. Ⓐ Ⓑ Ⓒ Ⓓ

- 18.**
- The points given in the table lie on a line. Find the decimal equivalent of the constant rate of change. (Lesson 4-10)

x	-3	-1	1	3
y	1	2	3	4

F -2.0

H 0.5

G -0.5

J 2.0

18. Ⓕ Ⓖ Ⓗ Ⓙ