

# Cumulative Review

## Chapters 1–2

**Multiple Choice. Circle the letter of the best answer.**

1. Order from least to greatest.

$$2.3 \quad -2 \quad 2\frac{1}{4} \quad 2\frac{1}{6}$$

A.  $2.3, 2\frac{1}{4}, 2\frac{1}{6}, -2$

B.  $2\frac{1}{6}, -2, 2.3, 2\frac{1}{4}$

C.  $2\frac{1}{4}, 2.3, -2, 2\frac{1}{6}$

D.  $-2, 2\frac{1}{6}, 2\frac{1}{4}, 2.3$

2. Use  $C = 35h + p$  to find the cost ( $C$ ) of having a car tuned up if the charges are \$35 per hour ( $h$ ) for labor plus the cost of parts ( $p$ ). The mechanic estimates it will require 2 hours of labor and \$75 for parts.

F. \$220

G. \$110

H. \$145

J. \$35

3. Order from least to greatest.

$$0.586 \quad 0.865 \quad 0.658 \quad 0.568$$

A.  $0.865, 0.658, 0.568, 0.586$

B.  $0.658, 0.568, 0.865, 0.586$

C.  $0.586, 0.568, 0.658, 0.865$

D.  $0.568, 0.586, 0.658, 0.865$

4. Solve.  $4(4x - 11) = 36$

F.  $x = 5$

G.  $x = 3$

H.  $x = -3$

J.  $x = -5$

5. Find the product.  $1\frac{2}{5} \times \left(-\frac{3}{7}\right)$

A.  $\frac{49}{15}$

B.  $\frac{3}{5}$

C.  $-\frac{3}{5}$

D.  $-\frac{49}{15}$

6. Use mental math to find the sum.

$$5.3 + 6.2 + 4.7 + 4.8$$

F. 20.0

G. 21.0

H. 22.0

J. 23.0

7. Mark bought a salad special for \$4.95. His brother bought a chicken special for \$5.50. If the tax was \$.55, how much change did they get back from a \$20 bill?

A. \$10

B. \$9

C. \$9.50

D. \$8

8. When multiplying two factors, each with one decimal place, how many decimal places should the answer have?

F. 0

G. 1

H. 2

J. 3

# Cumulative Review (continued)

## Chapter 1–2

9. Simplify.  $\frac{4}{9}(3c - 1) + c$
- A.  $2\frac{1}{3}c - \frac{4}{9}$   
 B.  $2\frac{1}{3}c - 1$   
 C.  $1\frac{1}{3}c + \frac{4}{9}$   
 D.  $1\frac{1}{3}c - 1$
10. Solve the equation.  $4y - 6 = -18$
- F. 3  
 G. 6  
 H. -3  
 J. -6
11. Evaluate  $8n - 3m$  for  $n = 4$  and  $m = 3$ .
- A. 23                                      B. 50  
 C. 41                                      D. 10
12. The German Club members had a bake sale. They sold small cookies for \$.35 and large cookies for \$1.00. The ingredients cost \$4.95. Which expression shows how much money they made from the sale of the cookies?
- F.  $(0.35 + 1) - 4.95n$   
 G.  $0.35n + m - 4.95$   
 H.  $1.35n - 4.95$   
 J.  $1.35n + 4.95$
13. Which statement is *not* true about variables?
- A. A variable is used to represent a quantity whose values may change or vary.  
 B. Letters are often used as variables.  
 C. A variable is a rule showing relationships among quantities.  
 D. Known values can be substitutes for variables in a formula.
14. Which of the expressions below is not equivalent to  $-8 - (-8)$ ?
- F.  $8 + 8$   
 G. 0  
 H.  $8 - 8$   
 J.  $-8 + (-8)$
15. Use mental math to simplify  $-4 + (-6) - (-4) - (-7)$ .
- A. -21  
 B. 21  
 C. 1  
 D. 0
16. Find the quotient.  $8.4 \div (-0.8)$
- F. -10.5  
 G. -6.72  
 H. 6.72  
 J. 10.5
17. Solve the equation.  $-2y + 7(2y + 20) = 20$
- A.  $y = 12$   
 B.  $y = 10$   
 C.  $y = -10$   
 D.  $y = -12$
18. Solve.  $\frac{3n}{5} - 9 = 0$
- F. -15  
 G. 5.4  
 H. 15  
 J. 135

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## Cumulative Review (continued)

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### Chapter 1–2

19. Simplify.  $-5 - 6(p + 2.3)$

- A.  $-6p - 2.7$
- B.  $-11p + 2.3$
- C.  $-11p - 11.5$
- D.  $-6p - 18.8$

### Short Response

20. Tara mows lawns as a summer job. She charges \$9.50 for each lawn plus \$2.50 for every hour she works. The gasoline she needs to mow an average lawn costs \$1.85. Write an expression for the profit Tara makes from cutting a single lawn.

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