

Chapter 1 Review**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

Write an algebraic expression for the word phrase.

- _____ 1. the product of a number n and 12
a. $n - 12$ b. $\frac{n}{12}$ c. $12n$ d. $n + 12$
- _____ 2. At a movie theater, all tickets are sold for \$6.50 each Write an algebraic expression for the total sales in dollars for n tickets.
a. $n + 6.5$ b. $6.5n$ c. $n - 6.5$ d. $\frac{n}{6.5}$

Evaluate the expression for the given value.

- _____ 3. $\frac{8c + 12}{c}$ for $c = 3$
a. 40 b. 4 c. 24 d. 12
- _____ 4. $|5d|$ for $d = 8$
a. -13 b. 13 c. 40 d. -40
- _____ 5. $|a| + 2|b|$ for $a = 3$ and $b = 2$
a. 7 b. 1 c. -7 d. -1
- _____ 6. $4|m| + 5|n|$ for $m = 1.1$ and $n = 7.1$
a. -31.1 b. -39.9 c. 31.1 d. 39.9
- _____ 7. $-a - 12$ for $a = -8$
a. 4 b. -20 c. -4 d. 20
- _____ 8. $x - y - z$ for $x = 11$, $y = 5$, and $z = 9$
a. 25 b. -3 c. 7 d. 15
- _____ 9. $|x| - |y| - |z|$ for $x = 9$, $y = 7$, and $z = 2$
a. 4 b. 14 c. 0 d. 18
- _____ 10. $cd - (d + c)$ for $c = 3$ and $d = -5$
a. -7 b. -23 c. -13 d. -17
- _____ 11. $(2r - s) \div (-4)(r + s)$ for $r = 1$ and $s = -2$
a. 3 b. 6 c. 5 d. 1
- _____ 12. $\frac{5x}{y + x + (-5)}$ for $x = 2$ and $y = 4$
a. 18 b. 10 c. 7 d. 14

- _____ 13. The cost of a school banquet is \$90 for the room rental and \$14 per person attending. Write an expression to model the total cost of the banquet for p people. What is the cost for 70 people?
- a. $14p + 90$; \$1,330 c. $90p + 14$; \$1,070
b. $90 + 14p$; \$1,070 d. $14 + 90p$; \$1,330

Order the numbers in the set from least to greatest.

- _____ 14. $-2.69, -1.49, -2.7, -2.66, -3.5$
- a. $-2.66, -2.69, -1.49, -2.7, -3.5$ c. $-1.49, -2.66, -2.69, -2.7, -3.5$
b. $-3.5, -2.7, -2.69, -2.66, -1.49$ d. $-3.5, -2.7, -2.66, -1.49, -2.69$

Simplify the expression.

- _____ 15. $|-6| + |-5|$
- a. 11 b. -11 c. 1 d. -1
- _____ 16. $8 \cdot (-10) \cdot (-2)$
- a. -4 b. 160 c. -82 d. 28
- _____ 17. $-8 \cdot (-3) \cdot (-3) \cdot (-5)$
- a. -77 b. -123 c. -53 d. 360
- _____ 18. $4 \cdot (-12) \div 3$
- a. 16 b. -51 c. 51 d. -16
- _____ 19. $9 \cdot (-1) - 20 \div (-10)$
- a. -11 b. 2 c. -7 d. -2
- _____ 20. During the day the temperature was 2°F . At night, the temperature dropped 18°F . What was the temperature at night?
- a. 16°F b. -20°F c. 20°F d. -16°F
- _____ 21. A waiter made \$120 in tips after waiting on 6 tables. What was the waiter's average tip per table?
- a. \$11 b. \$13 c. \$10 d. \$20
- _____ 22. Identify the property.
- $c \cdot 1 = c$
- a. Identity Property of Addition
b. Commutative Property of Addition
c. Commutative Property of Multiplication
d. Identity Property of Multiplication

Find the product.

- _____ 23. $-5(a + 2)$
- a. $-5a - 3$ b. $-5a + 10$ c. $-5a + 2$ d. $-5a - 10$

Solve the equation.

- _____ 24. $-22 = p - 25$
- a. 3 b. 47 c. -47 d. -3

____ 25. $\frac{y}{-20} = -3$

a. $\frac{3}{20}$

b. 17

c. -23

d. 60

Write and solve an equation.____ 26. You withdrew \$100 from the ATM machine. The new balance is \$372. What was the original balance b of your account?

a. $b + 100 = 372$; \$272

c. $b + 372 = 100$; \$272

b. $b - 100 = 372$; \$472

d. $b - 372 = -100$; \$472

____ 27. Alexa scored 87 on her history test. The test had a multiple-choice section and a short-answer section. Alexa got 74 points on the multiple-choice section. How many points p did she receive on the short-answer section?

a. $p - 87 = 74$; 161 points

c. $p + 87 = 74$; 13 points

b. $74 + p = 87$; 13 points

d. $p - 74 = 87$; 161 points

____ 28. Mark wants to buy a skateboard that costs \$65. He plans to save \$5 per week. How many weeks w will it take him to save \$65?

a. $5w = 65$; 13 weeks

c. $w - 65 = 5$; 70 weeks

b. $\frac{w}{5} = 65$; 13 weeks

d. $5 + w = 65$; 60 weeks

Short Answer

29. The table below shows the scores for two teams playing a series of four card games.

	Game 1	Game 2	Game 3	Game 4
Team 1	-3	1	-4	4
Team 2	4	-5	9	-9

a. Find the totals for each team after two games.

b. If the winner is the team with the greater score, which team is winning after two games?

c. Would the results be any different after all four games? Why or why not?

Other

30. Why is the absolute value of a number always positive?