

CHAPTER
1 **At-Home Practice**
Expressions and Integers

Evaluate each expression for the given value(s) of the variable.

1. $8(x + 7)$ for $x = 17$

2. $6m - 7n$ for $m = 12$ and $n = 7$

Write an algebraic expression for each word phrase.

3. a number decreased by 5

4. the product of a number and 9, less 4

Add.

5. $-3 + 8$

6. $-4 + (-5)$

7. $6 + (-9)$

8. $12 + (-7)$

Evaluate each expression for the given value of the variable.

9. $t + 8$ for $t = -12$

10. $b + (-5)$ for $b = 3$

11. $x + 11$ for $x = -19$

Subtract.

12. $-9 - 7$

13. $15 - (-3)$

14. $-19 - (-4)$

15. $32 - (-17)$

16. The temperature was 3° below zero at 6 P.M. Six hours later the temperature fell another 18° . What was the temperature at midnight?

Multiply or divide.

17. $-3(6)$

18. $-4(-5)$

19. $\frac{60}{-12}$

20. $16(-2)$

21. $\frac{-75}{-3}$

22. $-9(-9)$

23. $\frac{-18}{3}$

24. $-2(-10)$

Simplify.

25. $12(8 - 12)$

26. $-6(-3 + 7)$

27. $11 + 3(4 - 9)$

28. $7 - 8(4 + 6)$

Answers: 1. 192 2. 23 3. $n - 5$ 4. $9n - 4$ 5. 5 6. -9 7. -3 8. 5 9. -4 10. -4 11. -8 12. -16 13. 18
14. -15 15. 49 16. -21° 17. -18 18. 20 19. -5 20. -32 21. 25 22. 81 23. -6 24. 20 25. -48 26. -24
27. -4 28. -73

CHAPTER
1 **Family Fun**
Integer Cards

Materials

Deck of regular playing cards
Score pad and pencil

Directions

- Shuffle the cards. Each card has a value.
 - All of the black cards are positive integers.
 - All of the red cards are negative integers.
- The face cards have special qualities:
 - Jacks are multiplied by the value of 2.
 - Queens are multiplied by the value of 5.
 - Kings are multiplied by the value of 10.
- Each player starts out with 100 points.
- Each round consists of each player being dealt 2 cards, finding the sum of those integers, and then adding this integer to their total, beginning with 100. If a face card is dealt, the player must find the product of the two cards and then add the new integer to the player's total score.
- Record the total after each round under your name on the score pad.
- The goal is to be the player with the lowest positive score after 10 rounds.

Round				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				