Sixth Grade: Activity 8 Practice (pg. 105-6)

Lesson 8-1

1. a. -5 + (-4) = -9

b. 4 + (-7) = -3

2. a. -6

b. 2

c. -10

3. a. 5

b. -4

D. -4

c. −3

4. a. -3

b. -7

c. -6

d. 3

e. 5

5. 0; Sample answer: Using counters, a number and its opposite form the same number of zero pairs, and the zero pairs have a total sum of 0.

Lesson 8-2

6. a. positive

b. negative

c. negative

d. positive

7. 8

8. −13

9. 7

10. −12

11. −2

12. -39

13. -3

14. 29

15. -14

15. —

16. B

17. Yes; Sample answer: Consider finding the sum on a number line. The number of units and direction of the addends changes the order of the process but does not change the final point you land on.

18. −36 ft

19. 4°C

20. 25°F

Lesson 8-3

- **21. a.** -7 (-4) = -3 **b.** 2 (-5) = 7
- **22.** 4
- **23.** -2
- **24.** -5
- **25.** -7
- **26.** 18
- **27.** -23
- **28.** -13
- **29.** –35
- **30.** -5
- **31.** 41
- 32. -4
- **33.** 6
- **34.** -9
- **35.** −11
- **36.** -16
- **37.** 32
- **38.** B
- **39.** 20,602 ft: 20,320 (-282) = 20,602
- **40.** -14° C; Answers may vary. 12 - 19 - 7 = 12 + (-19) + (-7)= -14
- **41.** -6; Sample answer: Write the expression as a sum and add from left to right.
- **42.** No; the correct difference is 9. Sample answer: She confused the subtraction of integers with the addition of integers and added rather than subtracted.
- 43. Sample answer: It is similar when you subtract a lesser positive integer from a greater positive integer and when you subtract a greater negative integer from a lesser negative integer. Otherwise, it is different.
- **44.** Sample answer: The whole numbers are part of the integers, so the rules for integers apply to whole numbers.

45. Sample answer: To add integers, locate the first addend on the number line. Then move the number of units right given by a positive integer or the number of units left given by a negative integer. The point where you end is the sum. To use a number line to subtract, change the subtraction expression to addition and add the opposite. Then follow the rules for adding on a number line.