6th Grade Unit 2: Lesson 8-2

Check Your Understanding (p. 99):

4. -21; Sample answer: $|-17| = 17$, $|-4| = 4$; the signs of the addends are the same, so add $17 + 4 = 21$; both integers are negative so the sign of the sum is negative: -21.

5. 4; Sample answer: $|-8| = 8$, $|12| = 12$; the signs of the addends are different, so subtract $12 - 8 = 4$; the positive integer has the greater absolute value, so the sum is positive 4.

Lesson 8-2 Practice (p. 99):

6. negative

7. negative

8. positive

9. positive

10. 6

11. -12

12. -8

13. 7

14. 5

15. 8

16. -32

17. 21

18. -7

19. -31

20. No; $-9 + 14 = 5$ and $-14 + 9 = -5$.

21. Yes; $-8 + 6 = -2$ and $6 + (-8) = -2$

22. Sample answer: The temperature was more than $6°F$ below 0.

23. $2°C$

24. -18 m

25. Yes; Sample answer: $53 + (-60) = -7$ and $-7 < 0$.

26. 40 yards gained; $5 + (-8) + (-2) + 45 = 40$