Practice 1-4

Adding Real Numbers

Simplify each expression.

1. $6 + (-4)$

2. $-2 + (-13)$

3. $-18 + 4$

4. $15 + (-32)$

5. $-27 + (-14)$

6. $8 + (-3)$

7. $-12.2 + 31.9$

8. $-2.3 + (-13.9)$

9. $19.8 + (-27.4)$

10. $\frac{1}{4} + \left(-\frac{3}{4}\right)$

11. $\frac{2}{3} + \left(-\frac{1}{3}\right)$

12. $-\frac{7}{12} + \frac{1}{6}$

13. $2\frac{2}{3} + (-1)$

14. $-3\frac{3}{4} + 1\frac{1}{2}$

15. $2\frac{1}{3} + \left(-4\frac{2}{3}\right)$

16. $-6.3 + 8.2$

17. $-3.82 + 2.83$

18. $-7.8 + 9$

19. $|-12| + |-21|$

20. $|-13 + 6|$

21. $-14 + |-7|$

Evaluate each expression for $m = 2.5$.

22. $-m + 1.6$

23. $-3.2 + m$

24. $-2.5 + (-m)$

Simplify.

25. $-3 + (-6) + 14$

26. $4 + (-8) + (-14)$

27. $2.7 + (-3.2) + 1.5$

28. $-2.5 + (-1.2) + (-2.3)$

29. $\frac{1}{2} + \left(-\frac{1}{3}\right) + \frac{1}{4}$

30. $-\frac{2}{3} + \left(-\frac{1}{3}\right) + \left(-1\frac{1}{3}\right)$

Simplify.

31. $\begin{bmatrix} 4 & -1 \\ 2 & 5 \end{bmatrix} + \begin{bmatrix} -1 & 2 \\ -2 & -3 \end{bmatrix}$

32. $\begin{bmatrix} -4.7 \\ 2.3 \\ -1.5 \end{bmatrix} + \begin{bmatrix} 5.1 \\ -2.7 \\ 2.6 \end{bmatrix}$

33. The temperature at 5:00 A.M. is −38°F. The temperature rises 20° by 11:00 A.M. What is the temperature at 11:00 A.M.?

34. A football team has possession of the ball on their own 15-yd line. The next two plays result in a loss of 7 yd and a gain of 3 yd, respectively. On what yard line is the ball after the two plays?

35. Suppose your opening checking account balance is $124.53. After you write a check for $57.49 and make a deposit of $103.49, what is your new balance?

36. During an emergency exercise, a submarine dives 37 ft, rises 16 ft, and then dives 18 ft. What is the net change in the submarine's position after the second dive?