

Practice 2-1**Adding Rational Numbers****Simplify each expression.**

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|---|---|---|
| 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 $m = 2.5$.

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| 22. $-m + 1.6$ | 23. $-3.2 + m$ | 24. $-2.5 + (-m)$ |
|----------------|----------------|-------------------|

Simplify.

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|------------------------------|---|---|
| 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.

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| 31. $\begin{bmatrix} 4 & -1 \\ 2 & 5 \end{bmatrix} + \begin{bmatrix} -1 & 2 \\ -2 & -3 \end{bmatrix}$ | 32. $\begin{bmatrix} -4.7 \\ 2.3 \\ -1.5 \end{bmatrix} + \begin{bmatrix} 5.1 \\ -2.7 \\ 2.6 \end{bmatrix}$ |
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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?