

Name _____

Date _____

Additional Exercises 1.5
Form I
Addition of Real Numbers

Find the sum.

1. $10 + (-4)$

1. _____

2. $8 + (-3)$

2. _____

3. $-12 + 8$

3. _____

4. $-9 + 29$

4. _____

5. $-32 + 45$

5. _____

6. $-19 + (-11)$

6. _____

7. $-41 + (-18)$

7. _____

8. $-58 + 17$

8. _____

9. $-\frac{4}{11} + \frac{3}{11}$

9. _____

10. $-14.6 + (-3.3)$

10. _____

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11. $\frac{5}{12} + \left(-\frac{11}{12}\right)$

11. _____

12. $-\frac{9}{20} + \left(-\frac{3}{20}\right)$

12. _____

13. $-8 + (-12) + (-17)$

13. _____

14. $-13 + 25 + (-10) + 5$

14. _____

15. $48 + (-52) + (-26) + 13$

15. _____

Simplify each algebraic expression.

16. $8x + (-15x)$

16. _____

17. $-12a + (-a)$

17. _____

18. $-15y + 31y$

18. _____

19. $-20x + 5y + 15x + (-5y)$

19. _____

20. $5x + 2(x + 8)$

20. _____

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Additional Exercises 1.5
Form II
Addition of Real Numbers

Find the sum.

1. $-15 + 12$

1. _____

2. $-23 + 87$

2. _____

3. $52 + (-13)$

3. _____

4. $46 + (-60)$

4. _____

5. $-31 + (-31)$

5. _____

6. $-120 + (-93)$

6. _____

7. $-\frac{5}{13} + \frac{9}{13}$

7. _____

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

8. _____

9. $0.26 + (-3.057)$

9. _____

10. $-15.8 + (-4.2)$

10. _____

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11. $25 + 7 + (-11)$

11. _____

12. $5.4 + (-5.6) + (-2.9)$

12. _____

13. $-26 + \left(-\frac{8}{9}\right) + \left(\frac{5}{9}\right)$

13. _____

14. $-19 + (-20) + (-15) + (-8)$

14. _____

Simplify each algebraic expression.

15. $-4x + (-5x) + x$

15. _____

16. $15b + (-2) + (-10b) + 7 + 5b$

16. _____

17. $5(y + 10) + (-10) + (-9y)$

17. _____

18. $6(2y + 3) + (-2y) + (-12)$

18. _____

Solve by writing a sum of signed numbers and adding.

19. The temperature at 5 p.m. on January 18 was -11° Fahrenheit. By 7 p.m. the temperature had risen 24 degrees. Find the temperature at 7 p.m.

19. _____

20. The deep-sea diver dives from the surface to 41 feet below the surface. She then dives down 11 more feet. Find the diver's depth.

20. _____

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Additional Exercises 1.5
Form III
Addition of Real Numbers

Find the sum.

1. $45 + (-13)$

1. _____

2. $114 + (-86)$

2. _____

3. $-75 + 32$

3. _____

4. $-28 + 56$

4. _____

5. $-51 + (-37)$

5. _____

6. $-106 + (-388)$

6. _____

7. $-\frac{7}{15} + -\frac{2}{5}$

7. _____

8. $-15.8 + 42.2$

8. _____

9. $-\frac{3}{4} + \frac{7}{8}$

9. _____

10. $-\frac{1}{3} + -\frac{1}{6} + -\frac{1}{4}$

10. _____

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11. $-14.7 + 21.32 + (-5.1)$

11. _____

12. $-55 + 63 + (-38) + 17$

12. _____

13. $-24 + \left(-\frac{5}{8}\right) + 35 + \left(-\frac{3}{8}\right)$

13. _____

Simplify each algebraic expression.

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

14. _____

15. $-15y + 3(y + 5)$

15. _____

16. $6(y + 4) + 3(y - 8)$

16. _____

17. $-10m + (-3m) + (-12) + m + (-18)$

17. _____

Solve.

18. The difference between a country's exports and imports is called the country's trade balance. If one country had a trade balance of $-\$102$ billion in 2000, $\$142$ billion in 1999, and $-\$42$ billion in 2009 what was the total trade balance for these years?

18. _____

19. Scores in golf can be positive or negative integers. For example a score of 8 over par can be represented by $+8$ and a score of 3 under par can be represented by -3 . If Donna had a score of 2 over par, 4 under par, and 6 under par for three games of golf. What was her total score over or under par?

19. _____

20. Brian played poker with the guys Saturday night. He had $\$50$ to begin play with. He played six hands of Texas Hold'em. On the first hand he lost $\$10$, the next hand he lost $\$14$, and on the third hand he won $\$16$. Brian lost $\$32$ on the fourth hand, won $\$18$ on the fifth and won $\$26$ on the last hand of the night. How much money did Brian take home, or how much did he lose?

20. _____