

Lesson 1-10: Solve Problems with Rational Numbers

1. Sample answer: You need to make sense of the problem and understand how the quantities are related in order to determine which operations to use to solve it.
2. Sample answer: Multiply to find the number of feet the position of the truck changes relative to the car in 8 seconds, and then add that negative number to - 60 feet.
3. Sample answer: Yes; Emilio could have used $3 + (-5)$. Jim could have used $3 - 5$. The expressions used different operations but have the same value.
4. \$293.83
5. - 43.5 feet
6. - 2.4 °F
7. 47.6 °F
8. $-93\frac{3}{5}$
9. $5\frac{2}{7}$ weeks or 5 weeks, 2 days
10. 0.6 hours or 36 minutes
11. \$125
12. 5.2 inches
13. Sample answer: $6(7 + (-3))$ and $6(7) + 6(-3)$
14. a. 130.3 °F
b. 32 minutes
15. a. - 0.03
b. - 3.45
16. B
17. a. - 2.75
b. - 22