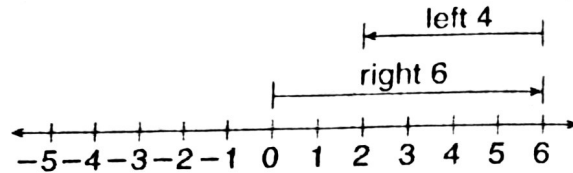


LESSON
3-2

Adding Rational Numbers

Reading Strategies: Use Graphic Aids

Randy's football team had the ball on the zero yard line. On their first play they gained 6 yards. On the second play they lost 4 yards. On what yard line is the ball now?



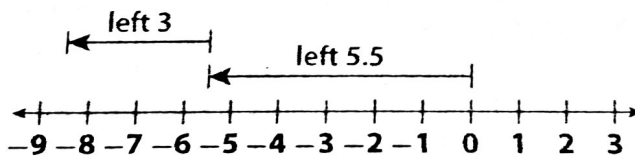
$$6 + (-4) = 2$$

Use the number line to help you answer the questions.

1. On which number do you begin? _____
2. Which direction do you move first? How many places do you move?

3. Which direction do you move next? How many places do you move?

When Angela went to bed, the temperature was zero degrees. Two hours later, the temperature had gone down 5.5 degrees. By the time Angela got up the temperature had gone down another 3 degrees. What was the temperature when she got up?



$$-5.5 + (-3) = -8.5$$

Use the number line to help you answer the questions.

4. On which number do you begin? _____
5. In which direction do you move first? How many spaces?

6. In which direction do you move next? How many spaces?

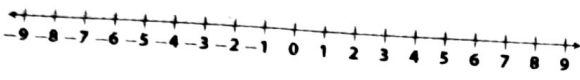
LESSON
3-2

Adding Rational Numbers

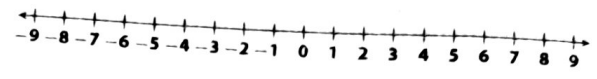
Practice and Problem Solving: A/B

Use a number line to find each sum.

1. $-3 + 4$



2. $1 + (-8)$



Find each sum without using a number line.

3. $4 + 5$

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

5. $-\frac{2}{9} + \frac{3}{9}$

6. $-3.5 + (-4.9)$

7. $-2\frac{1}{4} + (-3\frac{1}{4})$

8. $-0.6 + (-2.5)$

9. $-\frac{3}{4} + \frac{1}{5}$

10. $3 + (-7.5) + 1.2$

11. $-1.32 + 5.02 + (-1.24)$

12. $-3 + (-1.35) + 2.5$

13. $-6.5 + (-0.15) + (-0.2)$

14. $-\frac{3}{2} - \frac{7}{4} + \frac{1}{8}$

Solve.

15. Alex borrowed \$12.50 from his friend Danilo. He paid him back \$8.75. How much does he still owe?

16. A football team gains 18 yards in one play and then loses 12 yards in the next. What is the team's total yardage?

17. Dee Dee bought an apple for \$0.85, a sandwich for \$4.50, and a bottle of water for \$1.50. How much did Dee Dee spend?

18. Andre went hiking near his house. The first trail he hiked on took him 4.5 miles away from his house. The second trail he hiked took him 2.4 miles closer to his house. The third trail took him 1.7 miles further away from his house. After Andre hiked the three trails, how far from his house was he?