Lesson 8.4

Fraction and Whole-Number Division

Write a related multiplication sentence to solve.

1. \(3 \div \frac{1}{2}\)
2. \(\frac{1}{5} \div 3\)
3. \(2 \div \frac{1}{8}\)
4. \(\frac{1}{3} \div 4\)

\[3 \times 2 = 6\]

5. \(5 \div \frac{1}{4}\)
6. \(\frac{1}{2} \div 2\)
7. \(\frac{1}{4} \div 6\)
8. \(6 \div \frac{1}{5}\)

9. \(\frac{1}{5} \div 5\)
10. \(4 \div \frac{1}{8}\)
11. \(\frac{1}{3} \div 7\)
12. \(9 \div \frac{1}{2}\)

Problem Solving

13. Isaac has a piece of rope that is 5 yards long. Into how many \(\frac{1}{2}\)-yard pieces of rope can Isaac cut the rope?

14. Two friends share \(\frac{1}{2}\) of a pineapple equally. What fraction of a whole pineapple does each friend get?
Lesson Check (CC.5.NF.7c)

1. Sean divides 8 cups of granola into \(\frac{1}{4}\)-cup servings. How many servings of granola does he have?
   - A 32
   - B 16
   - C 2
   - D \(\frac{1}{2}\)

2. Brandy solved \(\frac{1}{6} \div 5\) by using a related multiplication expression. Which multiplication expression did she use?
   - A \(6 \times 5\)
   - B \(6 \times \frac{1}{5}\)
   - C \(\frac{1}{6} \times 5\)
   - D \(\frac{1}{6} \times \frac{1}{5}\)

Spiral Review (CC.5.NF.2, CC.5.NF.3, CC.5.NF.4a, CC.5.NF.7b)

3. Nine friends share 12 pounds of pecans equally. How many pounds of pecans does each friend get? (Lesson 8.3)
   - A \(\frac{3}{4}\) pound
   - B \(1\frac{1}{3}\) pounds
   - C \(1\frac{1}{2}\) pounds
   - D \(1\frac{2}{3}\) pounds

4. A scientist has \(\frac{2}{5}\) liter of solution. He uses \(\frac{1}{2}\) of the solution for an experiment. How much solution does the scientist use for the experiment? (Lesson 7.6)
   - A \(\frac{1}{5}\) liter
   - B \(\frac{1}{4}\) liter
   - C \(\frac{1}{3}\) liter
   - D \(\frac{1}{2}\) liter

5. Naomi needs 2 cups of sugar for a cake she is baking. She only has a \(\frac{1}{2}\)-cup measuring cup. How many times will Naomi need to fill the measuring cup to get 2 cups of sugar? (Lesson 8.2)
   - A 2
   - B 4
   - C 6
   - D 8

6. Michaela caught 3 fish, which weigh a total of \(19\frac{1}{2}\) pounds. One fish weighs \(7\frac{5}{8}\) pounds and another weighs \(5\frac{1}{4}\) pounds. How much does the third fish weigh? (Lesson 6.9)
   - A \(6\frac{1}{8}\) pounds
   - B \(6\frac{5}{8}\) pounds
   - C \(7\frac{1}{8}\) pounds
   - D \(7\frac{5}{8}\) pounds