

EXAMPLE 4 A kitchen counter is 90 inches long. Find the length of the counter in feet. (1 foot = 12 inches)

STEP 1 Write the problem as an improper fraction. Divide 90 inches by the number of inches in one foot.

$$\frac{90}{12}$$

STEP 2 Divide 90 by 12.

$$12 \overline{)90} 7 \frac{6}{12}$$

STEP 3 Reduce $\frac{6}{12}$ by dividing 6 and 12 by 6.

$$\frac{6 \div 6}{12 \div 6} = \frac{1}{2}$$

ANSWER: $7\frac{1}{2}$

Change each fraction to a whole number or a mixed number. Reduce any remaining fractions.

1. $\frac{14}{8} =$ $\frac{33}{6} =$ $\frac{14}{5} =$ $\frac{30}{7} =$ $\frac{12}{3} =$

2. $\frac{30}{9} =$ $\frac{26}{8} =$ $\frac{18}{6} =$ $\frac{36}{10} =$ $\frac{16}{8} =$

3. $\frac{13}{12} =$ $\frac{45}{9} =$ $\frac{45}{6} =$ $\frac{32}{12} =$ $\frac{42}{9} =$

4. $\frac{36}{12} =$ $\frac{28}{10} =$ $\frac{11}{2} =$ $\frac{44}{16} =$ $\frac{50}{4} =$

Write the next division problems as improper fractions. Then change the improper fractions to mixed numbers. Reduce any remaining fractions.

5. It took Mrs. Pagan 100 minutes to drive to the nearest shopping center. Change the time to hours. (1 hour = 60 minutes)
6. Steve cut a board 8 feet long into three equal pieces. How long was each piece?
7. An elevator can carry a load of 2,500 pounds. How many tons can it carry? (1 ton = 2,000 pounds)
8. In a school where adult education classes are held, each classroom can hold 30 students. How many classrooms are needed for 255 students?