Fractions in Applications

Fractions appear in many applied problems. Read each of the following problems carefully. Create the equation needed for solving the problem. Check your answers with the Lesson.

1. JJ has 23 gallons of fertilizer. If 4 gallons are needed to cover a football field, how many fields can JJ cover?

2. A recipe for cookies calls for $\frac{3}{4}$ cup of flour. How much flour will be needed to make 6 batches of cookies?

3. A patio requires $2\frac{1}{6}\,yd^3$ of concrete to cover it. If CJ wants to enlarge the patio to $1\frac{2}{3}$ times its current size, how much concrete will be needed to cover the whole patio?

4. In the city, $\frac{2}{3}$ of the people surveyed drive to work. Of those, $\frac{2}{7}$ drive a truck. What fraction of those surveyed drive a truck?

5. A piece of ribbon is $3\frac{1}{5}\,yd$ long. If it takes $\frac{4}{5}\,yd$ to make a bow. How many bows can be made from the ribbon?

6. If the jug has $4\frac{2}{3}$ gallons of water and $2\frac{3}{4}$ gallons are poured out, how much water is left in the jug?

7. What is the perimeter (distance all the way around) of a rectangular frame that is $\frac{3}{4}\,ft$ long and $\frac{2}{3}\,ft$ wide? What is the area (length times width) enclosed by the frame?