Lesson 38 Problem Set

1. Fill in the unknown factors.
   a. $7 \times 3\frac{4}{5} = (\_ \times 3) + (\_ \times \frac{4}{5})$
   b. $3 \times 12\frac{7}{8} = (3 \times \_ \_ \_) + (3 \times \frac{7}{8})$

2. Multiply. Use the distributive property.
   a. $7 \times 8\frac{2}{5}$
      \[
      \begin{array}{cccccccc}
      & 8 & \frac{2}{5} & 8 & \frac{2}{5} & 8 & \frac{2}{5} & 8 & \frac{2}{5} \\
      \hline
      & 5 & 6 & & & & & & & \frac{4}{5}
      \end{array}
      \]
      \[7 \times 8\frac{2}{5} = 56 + \frac{4}{5}
      = 56 + 2\frac{4}{5}
      = 58\frac{4}{5}\]
   b. $4\frac{5}{6} \times 9$
      \[
      \begin{array}{c}
      36 + \frac{45}{6}
      = 36 + \frac{7}{6}
      = 43\frac{2}{6}
      \end{array}
      \]
   c. $3 \times 8\frac{11}{12}$
      \[
      \begin{array}{cccccccc}
      & 8 & \frac{11}{12} & 8 & \frac{11}{12} & 8 & \frac{11}{12} & 8 & \frac{11}{12} \\
      \hline
      & 2 & 4 & & & & & & & \frac{33}{12}
      \end{array}
      \]
      \[3 \times 8\frac{11}{12} = 24 + \frac{33}{12}
      = 24 + 2\frac{9}{12}
      = 26\frac{9}{12}\]
   d. $5 \times 20\frac{8}{10}$
      \[
      \begin{array}{c}
      100 + \frac{40}{10}
      = 100 + 4
      = 104
      \end{array}
      \]
e. \[25 \frac{4}{100} \times 4 = 100 + \frac{16}{100} = 100\frac{16}{100}\]

3. The distance around the park is \(2 \frac{5}{10}\) miles. Cecilia ran around the park 3 times. How far did she run?

\[2 \frac{5}{10} \times 3 = 6 + \frac{15}{10} = 6 + 1\frac{5}{10} = 7\frac{5}{10}\]

Cecilia ran \(7 \frac{5}{10}\) miles.

4. Windsor the dog ate \(4 \frac{3}{4}\) snack bones each day for a week. How many bones did Windsor eat that week?

\[7 \times 4 \frac{3}{4} = 28 + \frac{21}{4} = 28 + 5\frac{1}{4} = 33\frac{1}{4}\]

Windsor ate 33 \(\frac{1}{4}\) bones that week.