

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Multiply using fraction form and unit form. Check your answer by counting the decimal places.

The first one is done for you.

$$\begin{aligned}
 \text{a. } 3.3 \times 1.6 &= \frac{33}{10} \times \frac{16}{10} && \text{3 3 tenths} \\
 &= \frac{33 \times 16}{100} && \begin{array}{r} \times \quad \underline{16} \text{ tenths} \\ 198 \\ + \underline{330} \\ 528 \text{ hundredths} \end{array} \\
 &= \frac{528}{100} \\
 &= 5.28
 \end{aligned}$$

$$\text{b. } 3.3 \times 0.8 = \begin{array}{r} \text{3 3 tenths} \\ \times \quad \underline{8} \text{ tenths} \end{array}$$

c.  $4.4 \times 3.2 =$

d.  $2.2 \times 1.6 =$

2. Multiply. The first one is partially done for you.

$$\begin{aligned}
 \text{a. } 3.36 \times 1.4 &= \frac{336}{100} \times \frac{14}{10} && \text{3 3 6 hundredths} \\
 &= \frac{336 \times 14}{1,000} && \begin{array}{r} \times \quad \underline{14} \text{ tenths} \end{array} \\
 &= \frac{4,704}{1,000} \\
 &= 4.704
 \end{aligned}$$

$$\text{b. } 3.35 \times 0.7 = \begin{array}{r} \text{3 3 5 hundredths} \\ \times \quad \underline{7} \text{ tenths} \end{array}$$

c.  $4.04 \times 3.2 =$

d.  $4.4 \times 0.16 =$

3. Solve using the standard algorithm. Show your thinking about the units of your product. The first one is done for you.

a.  $3.2 \times 0.6 = 1.92$

$$\begin{array}{r} 3 \text{ 2 tenths} \\ \times \quad 6 \text{ tenths} \\ \hline 1 \text{ 9 2 hundredths} \end{array}$$

$$\frac{32}{10} \times \frac{6}{10} = \frac{32 \times 6}{100}$$

b.  $2.3 \times 2.1 =$  \_\_\_\_\_

$$\begin{array}{r} 2 \text{ 3 tenths} \\ \times \quad 2 \text{ 1 tenths} \end{array}$$

c.  $7.41 \times 3.4 =$  \_\_\_\_\_

d.  $6.50 \times 4.5 =$  \_\_\_\_\_

4. Erik buys 2.5 pounds of cashews. If each pound of cashews costs \$7.70, how much will he pay for the cashews?

5. A swimming pool at a park measures 9.75 meters by 7.2 meters.

a. Find the area of the swimming pool.

b. The area of the playground is one and a half times that of the swimming pool. Find the total area of the swimming pool and the playground.