

## Multiplying a Decimal by a Decimal: Wholes and Tenths by Tenths

Let's look at what happens when you multiply wholes and tenths by tenths:

We need more than one square.

Shade the area shown by this question:

$$2.5 \times 0.3 = \underline{\hspace{2cm}} \quad 2.5$$

0.3

Shade the

0.4

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Now calculate  $2.8 \times 0.4$  using the written method:

$$\begin{array}{r} 2.8 \\ \times 0.4 \\ \hline \end{array}$$

Notice your answer is in hundredths. Don't try to line up the decimal points in your answer. Just place the decimal point so your answer is in hundredths.

**tenths x tenths = hundredths**

Complete these:

1)

$$\begin{array}{r} 3.6 \\ \times 0.8 \\ \hline \end{array}$$

2)

$$\begin{array}{r} 4.8 \\ \times 0.3 \\ \hline \end{array}$$

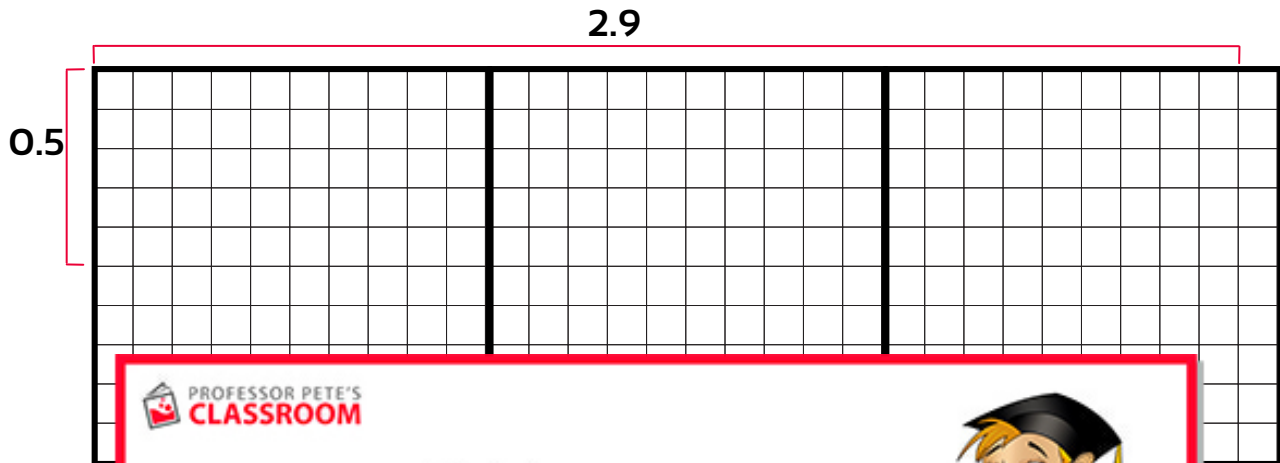
3)

$$\begin{array}{r} 7.5 \\ \times 0.9 \\ \hline \end{array}$$

## Multiplying a Decimal by a Decimal: Wholes and Tenths by Tenths

Shade the area shown by this question:

$$2.9 \times 0.5 = \underline{\hspace{2cm}}$$



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Now complete

1)

x

4)

$$\begin{array}{r} 6.4 \\ \times 0.7 \\ \hline \end{array}$$

$$\begin{array}{r} 5.4 \\ \times 0.8 \\ \hline \end{array}$$

$$\begin{array}{r} 9.3 \\ \times 0.6 \\ \hline \end{array}$$

Set these out vertically to solve them:

7)

$$3.4 \times 0.9 =$$

8)

$$7.8 \times 0.2 =$$

9)

$$6.3 \times 0.4 =$$

## Multiplying a Decimal by a Decimal: Wholes and Tenths by Tenths

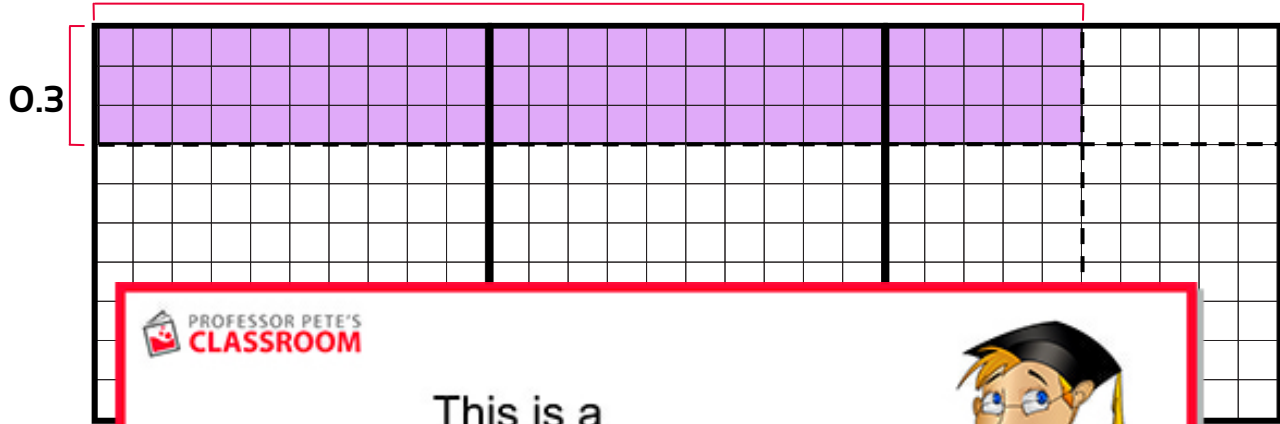
Let's look at what happens when you multiply wholes and tenths by tenths:

We need more than one square.

Shade the area shown by this question:

$$2.5 \times 0.3 = \underline{0.75}$$

2.5



Shade the



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Now calculate  $2.8 \times 0.4$  using the written method:

$$\begin{array}{r} 2.8 \\ \times 0.4 \\ \hline 1.12 \end{array}$$

Notice your answer is in hundredths. Don't try to line up the decimal points in your answer. Just place the decimal point so your answer is in hundredths.

**tenths x tenths = hundredths**

Complete these:

1)

$$\begin{array}{r} 3.6 \\ \times 0.8 \\ \hline 2.88 \end{array}$$

2)

$$\begin{array}{r} 4.8 \\ \times 0.3 \\ \hline 1.44 \end{array}$$

3)

$$\begin{array}{r} 7.5 \\ \times 0.9 \\ \hline 6.75 \end{array}$$