Multiplying Decimals by Decimals

Name: _____

Grade 5 · Multiply tenths and hundredths, then place the decimal point

Worked example

$$\begin{array}{r} 3.6 \\ \times\ 1.4 \\ \hline 5.04 \end{array}$$

Multiply as whole numbers: 36 × 14 = **504**.
Count the decimal places: 3.6 has one and 1.4 has one. That is two in all.
Put the point so the product has two decimal places: **5.04**.
Check with an estimate: 4 × 1 = 4, and 5.04 is close to 4.
A zero at the end can be dropped after the point is placed: 1.40 = 1.4.

1.

$$\begin{array}{r} 2.4 \\ \times\ 1.3 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 0.7 \\ \times\ 0.6 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 3.5 \\ \times\ 0.4 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 1.6 \\ \times\ 2.7 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 0.82 \\ \times\ 0.5 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 4.3 \\ \times\ 1.9 \\ \hline \end{array}$$

7.

$$\begin{array}{r} 0.36 \\ \times\ 0.4 \\ \hline \end{array}$$

8.

$$\begin{array}{r} 5.2 \\ \times\ 3.4 \\ \hline \end{array}$$

9.

$$\begin{array}{r} 6.5 \\ \times\ 0.24 \\ \hline \end{array}$$

10.

$$\begin{array}{r} 0.08 \\ \times\ 0.9 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 7.25 \\ \times\ 1.2 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 9.4 \\ \times\ 0.63 \\ \hline \end{array}$$

Multiplying Decimals by Decimals (Answer Key)

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1.

$$\begin{array}{r} 2.4 \\ \times\ 1.3 \\ \hline 3.12 \end{array}$$

24 × 13 = 312

2.

$$\begin{array}{r} 0.7 \\ \times\ 0.6 \\ \hline 0.42 \end{array}$$

7 × 6 = 42

3.

$$\begin{array}{r} 3.5 \\ \times\ 0.4 \\ \hline 1.4 \end{array}$$

35 × 4 = 140, and 1.40 = 1.4

4.

$$\begin{array}{r} 1.6 \\ \times\ 2.7 \\ \hline 4.32 \end{array}$$

16 × 27 = 432

5.

$$\begin{array}{r} 0.82 \\ \times\ 0.5 \\ \hline 0.41 \end{array}$$

82 × 5 = 410, and 0.410 = 0.41

6.

$$\begin{array}{r} 4.3 \\ \times\ 1.9 \\ \hline 8.17 \end{array}$$

43 × 19 = 817

7.

$$\begin{array}{r} 0.36 \\ \times\ 0.4 \\ \hline 0.144 \end{array}$$

36 × 4 = 144

8.

$$\begin{array}{r} 5.2 \\ \times\ 3.4 \\ \hline 17.68 \end{array}$$

52 × 34 = 1,768

9.

$$\begin{array}{r} 6.5 \\ \times\ 0.24 \\ \hline 1.56 \end{array}$$

65 × 24 = 1,560, and 1.560 = 1.56

10.

$$\begin{array}{r} 0.08 \\ \times\ 0.9 \\ \hline 0.072 \end{array}$$

8 × 9 = 72

11.

$$\begin{array}{r} 7.25 \\ \times\ 1.2 \\ \hline 8.7 \end{array}$$

725 × 12 = 8,700, and 8.700 = 8.7

12.

$$\begin{array}{r} 9.4 \\ \times\ 0.63 \\ \hline 5.922 \end{array}$$

94 × 63 = 5,922