

Steps to Divide Decimals

1. First # goes inside!
- *2. IF the divisor has a decimal, move it over and count the spaces (decimal dance)
- *3. Move the decimal on the inside, the same number of spaces
4. Bring the decimal up
5. Divide (ignore the decimal)
6. Keep adding zeros until you get a zero remainder or a repeating decimal

Example:

0.21

$$1.05 \div 5$$

$$\begin{array}{r} .21 \\ 5 \overline{) 1.05} \\ \underline{10} \\ 5 \\ \underline{5} \\ 0 \end{array}$$

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Example:

14.371

$$\frac{57.484}{4}$$

$$\begin{array}{r}
 14.371 \\
 4 \overline{) 57.484} \\
 \underline{4} \\
 17 \\
 \underline{16} \\
 14 \\
 \underline{12} \\
 208 \\
 \underline{208} \\
 0
 \end{array}$$

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Example:

$$2.52 \div 3$$

0.84

$$\begin{array}{r}
 .84 \\
 3 \overline{) 2.52} \\
 \underline{6} \\
 15 \\
 \underline{12} \\
 32 \\
 \underline{30} \\
 20 \\
 \underline{18} \\
 20 \\
 \underline{18} \\
 20
 \end{array}$$

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Example:

1.06

$$\frac{41.6}{39}$$

$$\begin{array}{r}
 1.066 \\
 39 \overline{) 41.600} \\
 \underline{39} \\
 260 \\
 \underline{234} \\
 260 \\
 \underline{234} \\
 260
 \end{array}$$

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Example:

$$\frac{0.312}{12}$$

.026

$$\begin{array}{r}
 .026 \\
 12 \overline{) 0.312} \\
 \underline{24} \\
 12 \\
 \underline{12} \\
 0
 \end{array}$$

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