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Dividing Decimals

When dividing decimals by decimals, change the divisor (number on the outside) to a whole number.

That means: move the decimal place to the **RIGHT** until the decimal becomes a whole number.

Then, move the decimal place of the dividend (number on the inside) the **SAME NUMBER** of places. Bring your decimal point up to the quotient (number on top) and divide as with whole numbers.

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Dividing Decimals

Example: Solve each equation.

$$d = 0.207 \div 9$$

$$\begin{array}{r}
 0.023 \\
 9 \overline{) 0.207} \\
 \underline{18} \\
 27 \\
 \underline{27} \\
 0
 \end{array}$$

$$d = 0.023$$

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Dividing Decimals

Example: Solve each equation.

$$-2.55 \div (-0.15) = p$$

$$0.15 \overline{) 2.55} \Rightarrow 15 \overline{) 255}$$

$$\begin{array}{r} 17 \\ 15 \overline{) 255} \\ \underline{-15} \\ 105 \\ \underline{-105} \\ \end{array}$$

$p = 17$

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Dividing Decimals

Example: Solve each equation.

$$-0.0068 \div 0.004 = m$$

$$0.004 \overline{) 0.0068} \Rightarrow 4 \overline{) 68}$$

$$\begin{array}{r} 1.7 \\ 4 \overline{) 68} \\ \underline{-4} \\ 28 \\ \underline{-28} \\ \end{array}$$

$m = -1.7$

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Dividing Decimals

Example: Solve each equation.

$$-6.3 \div 0.35 = x$$

$$0.35 \overline{) 6.30} \Rightarrow 35 \overline{) 630}$$

$$\begin{array}{r} 18. \\ 35 \overline{) 630} \\ \underline{-35} \\ 280 \\ \underline{-280} \\ \end{array}$$

$x = -18$

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Dividing Decimals

Example: Solve each equation.

$$y = 1.088 \div (-0.64)$$

$$0.64 \overline{) 1.088} \Rightarrow 64 \overline{) 1088}$$

$$\begin{array}{r} 1.7 \\ 64 \overline{) 1088} \\ \underline{-64} \\ 448 \\ \underline{-448} \\ \end{array}$$

$y = -1.7$

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