

Dividing Decimals by Decimals

$$1.2 \overline{) 36.12}$$

$$\begin{array}{r} 3.01 \\ 12 \overline{) 36.12} \\ \underline{-36} \downarrow \\ 01 \downarrow \\ \underline{-0} \downarrow \\ 12 \downarrow \\ \underline{-12} \\ 0 \end{array}$$

Step 1: Move ^{both} decimals to the right

Step 2: Rewrite your problem

Step 3: Raise the decimal

Step 4: Divide

$$48.06 \div 0.72 =$$

$$0.72 \overline{) 48.06}$$

$$\begin{array}{r} \overset{1}{7}2 \quad \overset{1}{7}2 \quad \overset{1}{7}2 \\ \times 6 \quad \times 7 \quad \times 5 \\ \hline 432 \quad 504 \quad 360 \end{array}$$

$$\begin{array}{r} 66.75 \\ 72 \overline{) 4806.00} \\ \underline{-432} \downarrow \\ 486 \downarrow \\ \underline{-432} \downarrow \\ 540 \downarrow \\ \underline{-504} \downarrow \\ 360 \downarrow \\ \underline{-360} \\ 0 \end{array}$$

* If you have a remainder, POOF in a "0"

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$$3. \quad 0.5 \overline{) 2.0} = \begin{array}{r} 4 \\ 5 \overline{) 20} \\ \underline{-20} \\ 0 \end{array}$$

$$4. \quad 0.25 \overline{) 1.25} = \begin{array}{r} \times \times 5.0 \\ 25 \overline{) 125.0} \\ \underline{-125} \downarrow \\ 00 \\ \underline{-00} \\ 0 \end{array}$$

$$5. \quad 0.7 \overline{) 2.1} = \begin{array}{r} 3 \\ 7 \overline{) 21} \\ \underline{-21} \\ 0 \end{array}$$

$$6. \quad 0.3 \overline{) 6.6} = \begin{array}{r} 22 \\ 3 \overline{) 66} \\ \underline{66} \downarrow \\ 06 \\ \underline{-06} \\ 0 \end{array}$$