

ADD, SUBTRACT, MULTIPLY, AND DIVIDE DECIMALS

Adding Decimals:

You add decimals the same way you add whole numbers BUT you also need to place the decimal in the correct spot.

$$\begin{array}{r}
 12.432 \\
 + 10.281 \\
 \hline
 22.713
 \end{array}$$

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BUT



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numbers BUT you also need to place the decimal in the correct spot. When multiplying decimals, the decimals may or may NOT be lined up in the multiplication problem.

$$\begin{array}{r}
 4.23 \text{ (2 decimal places)} \\
 \times 1.2 \text{ (1 decimal place)} \\
 \hline
 846 \\
 423 \\
 \hline
 5.076 \text{ (← move decimal 3 decimal places)}
 \end{array}$$

Dividing Decimals:

You also divide decimals the same way you divide whole numbers BUT you also need to place the decimal in the correct spot.

$$50.4 \div 2.4 = ?$$

(dividend) \div (divisor)

Before dividing, we need to make the divisor (2.4) into a whole number.

To do this we must: Make the divisor (2.4) into a whole number by multiplying the divisor (2.4) and the dividend (50.4) by the same number (10, 100, or 1000 for example)...but there is an easier way to do this...

Eas



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$$\begin{array}{r} 2 \\ 24 \overline{) 504} \\ \underline{- 48} \\ 24 \\ \underline{- 24} \\ 0 \end{array}$$

$$\begin{array}{r} 21. \\ 24 \overline{) 504.} \\ \underline{- 48} \\ 24 \\ \underline{- 24} \\ 0 \end{array}$$

$$50.4 \div 2.4 = \mathbf{21.0}$$