

CLO: Students will review how to solve problems involving decimals using either addition, subtraction, multiplication or division to strengthen their mathematic manipulation skills.

Warm - Up

1. $\frac{6}{5} + \frac{2}{3}$ $3\left(\frac{6}{5}\right) + 1\left(\frac{2}{3}\right) 5$ $\frac{18}{15} + \frac{10}{15} = \frac{28}{15}$

2. $2\frac{1}{2} + 4\frac{2}{3}$ $2 \cdot 2 + 1$ $4 \cdot 3 + 2$ $\frac{5}{2} + \frac{14}{3}$ $15/6 + 28/6 = 43/6$

3. $\frac{5}{3} - \frac{6}{7}$ $\frac{35}{21} - \frac{18}{21} = \frac{17}{21}$

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In any type of math it is important to know how to manipulate a variety of mathematical situations using different methods.

One process that is important to know is how to add or subtract decimals.

This is very useful when you are dealing with situations that involve money, such as balancing your bank account or counting change.

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ADDING DECIMALS

To add a decimal, you will need to line up the decimal points to add it correctly. (NO CALCULATOR!!!)

1. Add $28.5 + 2.64 + 105.3$

$$\begin{array}{r} 28.50 \\ 2.64 \\ + 105.30 \\ \hline 136.44 \end{array}$$

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Try it on your own. (NO CALCULATOR!!!)

1. $13.4 + 21.75 + 2.73 + 112.2$

$$\begin{array}{r} 13.4 \\ 21.75 \\ 2.73 \\ 112.2 \\ \hline 150.08 \end{array}$$

2. $2.79 + 14.6 + 109.77$

$$\begin{array}{r} 2.79 \\ 14.60 \\ 109.77 \\ \hline 127.27 \\ 127.16 \end{array}$$

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Subtracting Decimals

To subtract decimals you will use the same method as adding decimals, line up the decimals and subtract the values. (NO CALCULATOR!!)

1. 230.43 - 25.1

$$\begin{array}{r} 230.43 \\ - 25.10 \\ \hline 205.33 \end{array}$$

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Try it on your own. (NO CALCULATOR!!!)

1. .07 - .002

$$\begin{array}{r} .0710 \\ - .002 \\ \hline .068 \end{array}$$

2. 96 - .3992

$$\begin{array}{r} 96.0000 \\ - .3992 \\ \hline 95.6008 \end{array}$$

Find the sum

$$5.4 + (-9.7)$$

$$\begin{array}{r} 9.7 \\ - 5.4 \\ \hline -4.3 \end{array}$$

$$-4.79 + (-0.4)$$

$$\begin{array}{r} 4.79 \\ .40 \\ \hline -5.19 \end{array}$$

$$\begin{array}{r} + \\ -8.1 \quad \text{+} \quad (-8.9) \\ 8.9 \\ -8.1 \\ \hline 0.8 \end{array}$$

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1. Find the sum of $12.15 + 5.98 + 123.75 + 29.7$

$$\begin{array}{r} 12.15 \\ 5.98 \\ 123.75 \\ + 29.7 \\ \hline \end{array} \quad \begin{array}{r} 161.58 \\ 171.58 \end{array}$$

2. Find the difference of $1259.12 - 24.652$

$$\begin{array}{r} 1259.120 \\ - 24.652 \\ \hline 1234.468 \end{array}$$

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Multiplying Decimals

To multiply decimals, you don't have to line up the decimals. Just multiply the two numbers as you would without any decimals. Then count the number of digits to the right of the decimal in your answer!

Example 1: Multiply 1.57×32.1

$$\begin{array}{r} 1.57 \\ \times 32.1 \\ \hline 157 \\ 3140 \\ 47100 \\ \hline 50.397 \end{array}$$

Example 2: Multiply $4.1 \times .23$

$$\begin{array}{r} 4.1 \\ \times .23 \\ \hline 123 \\ 820 \\ \hline .943 \end{array}$$

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Try it on your own!!

1. $18.1 \times .04$

$$\begin{array}{r} 18.1 \\ \times .04 \\ \hline 724 \\ 0000 \\ \hline .724 \end{array}$$

2. $.97 \times 5.6$

$$\begin{array}{r} .97 \\ \times 5.6 \\ \hline 582 \\ 485 \times \\ \hline 5.432 \end{array}$$

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1. 6.84×4

$$\begin{array}{r} ^3 ^1 \\ 6.84 \\ \times 4 \\ \hline 27.36 \end{array}$$

2. $.0289 \times 9$

$$\begin{array}{r} ^2 ^8 ^8 \\ .0289 \\ \times 9 \\ \hline .2601 \end{array}$$

3. $8.5 \times .83$

$$\begin{array}{r} 8.5 \\ \times .83 \\ \hline \end{array}$$

$$\begin{array}{r} ^4 \\ 8.5 \\ \times .83 \\ \hline 1255 \\ 680 \\ \hline 7.055 \end{array}$$

$$\textcircled{.2601}$$

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Dividing Decimals

To divide by a decimal, move the decimal point of the divisor (outside the brackets) to the right until no longer needed. Then move the decimal of the dividend (inside the brackets) the same number of places to the right. Now, divide like normal.

$$\begin{array}{l} \text{dividend} \rightarrow 7.198 \div .72 \leftarrow \text{divisor} \\ \begin{array}{r} .72 \overline{) 7.198} \\ \uparrow \qquad \uparrow \\ \text{divisor} \quad \text{dividend} \end{array} \end{array}$$

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Example #1: $4.374 \div .03$

$$\begin{array}{r} 03 \overline{) 4.374} \\ 145.8 \end{array}$$
$$\begin{array}{r} 3 \overline{) 437.4} \\ - 3 \downarrow \\ \hline 13 \downarrow \\ - 12 \downarrow \\ \hline 17 \downarrow \\ 15 \downarrow \\ \hline 24 \end{array}$$

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$$40.2601 \div 9 = 4.4733\bar{4}$$

$$\begin{array}{r} 9 \overline{) 40.26010} \\ \underline{-36} \\ 42 \\ \underline{-36} \\ 66 \\ \underline{-63} \\ 30 \\ \underline{-27} \\ 31 \\ \underline{-27} \\ 40 - 36 = 4 \end{array}$$

$$7.055 \div .83 = 8.5$$

$$\begin{array}{r} 83 \overline{) 705.5} \\ \underline{-664} \\ 418 \\ \underline{-415} \\ 3 \end{array}$$

$$9.\sqrt{35760}$$