

Decimals

M4N5 Students will further develop their understanding of the meaning of decimals and use them in computations.

- a. Understand decimals are a part of the base-ten system.
- b. Understand the relative size of numbers and order two digit decimals.
- c. Add and subtract both one and two digit decimals.
- d. Model multiplication and division of decimals by whole numbers.
- e. Multiply and divide both one and two digit decimals by whole numbers.

When adding and subtracting decimal numbers, line up the decimal and fill in spaces with zeroes.

$3.4 + 3.58 = \underline{\hspace{2cm}}$	$\begin{array}{r} 3.40 \\ + 3.58 \\ \hline 6.98 \end{array}$	$4.5 - 2.89 = \underline{\hspace{2cm}}$	$\begin{array}{r} 3 \ 14 \ 10 \\ 4.50 \\ - 2.89 \\ \hline 1.61 \end{array}$
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Examples of multiplying with decimal numbers:

We will practice modeling in class with manipulatives.

$\begin{array}{r} +1 \ +1 \\ 7 \ 2 \ .3 \\ \times \ 6 \\ \hline 433.8 \end{array}$	$\begin{array}{r} .2 \ 1 \\ \times \ 1 \ 2 \\ \hline 4 \ 2 \\ +2 \ 1 \ 0 \\ \hline 2.5 \ 2 \end{array}$	$\begin{array}{r} +4 \\ -3 \\ 2 \ 5 \\ \times \ .9 \ 7 \\ \hline 1 \ 7 \ 5 \\ +2 \ 2 \ 5 \ 0 \\ \hline 2 \ 4.2 \ 5 \end{array}$
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Examples of dividing a decimal number:

We will practice modeling in class with manipulatives.

$\begin{array}{r} \underline{0.9} \\ 9 \ \ 8.1 \end{array}$	$\begin{array}{r} \underline{1.2} \\ 8 \ \ 9.6 \\ -9 \ 6 \\ \hline 0 \end{array}$	$\begin{array}{r} \underline{9 \ 1.9} \\ 9 \ \ 8 \ 2 \ 7.1 \\ -8 \ 1 \\ \hline 1 \ 7 \\ -9 \\ \hline 8 \ 1 \\ -8 \ 1 \\ \hline 0 \end{array}$
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