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 = ____  
+ 3.58  
6.98

4.5 - 2.89 = _____  
- 2.89  
1.61

Examples of multiplying with decimal numbers:
We will practice modeling in class with manipulatives.

\[
\begin{array}{ccc}
\times 6 & \times 1.2 & \times 0.97 \\
433.8 & 4.2 & 17.5 \\
+2.10 & +22.50 & 24.25 \\
\end{array}
\]

Examples of dividing a decimal number:
We will practice modeling in class with manipulatives.

\[
\begin{array}{ccc}
9 | 8.1 & 8 | 9.6 & 9 | 82.71 \\
-96 & -81 & -91 \\
0 & 17 & 0 \\
\end{array}
\]

\[
\begin{array}{ccc}
-9 | 8.1 & -8.1 & 0 \\
\end{array}
\]