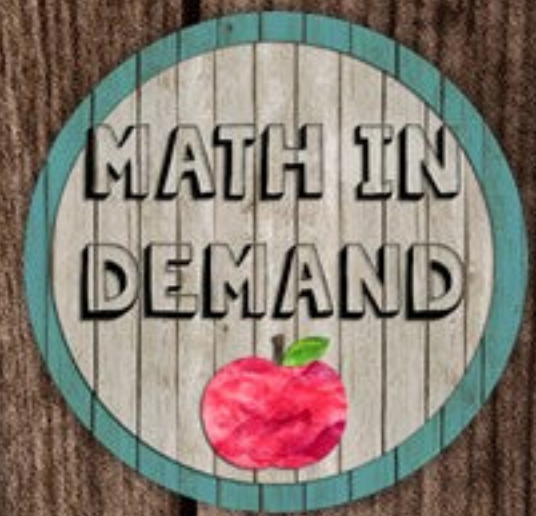


6th Grade Math

Interactive Notebook



Number Sense
(Subtracting Decimals)

How do I subtract decimals? Fill in any blank spots to the right of a decimal with "0"

Step 1: Line up your decimals. Fill in any blank spots to the right of a decimal with "0"

Step 2: Subtract from right to left, column by column. You will need to "borrow" if the top number is greater than the bottom.

Step 3: Place the decimal point in line with the other decimals.

Example:

$$\begin{array}{r} 15.96 \\ - 8.20 \\ \hline 7.76 \end{array}$$

Line up **Subtract** **Decimal**

1 $215.7 - 24.98$

$$\begin{array}{r} 215.70 \\ - 24.98 \\ \hline 190.72 \end{array}$$

Answer: 190.72

Your Turn

1) $878.504 - 123.6$

$$\begin{array}{r} 878.504 \\ - 123.600 \\ \hline 752.904 \end{array}$$

Answer: 752.904

3) $1,046 - 122.07$

$$\begin{array}{r} 1,046.00 \\ - 122.07 \\ \hline 923.93 \end{array}$$

Answer: 923.93

Ratios, Rates, & Percentages
(Finding the Base)

Recap: Set up the proportion to solve for the amount, base, or percent

$$\frac{\text{Amount}}{\text{Base}} = \frac{\text{is}}{\text{of}} = \frac{\%}{100} = \frac{\text{Rate}}{\text{Rate}}$$

Solve for the base (whole)

$$\text{Base} = \frac{\text{Amount}}{\text{Rate}}$$

175 is 20% of what number?

Amount
"part"

Base
"whole"

Percent

What does % mean?
(= 100)

Examples:

Solve the problem from above

$$\begin{aligned} \frac{175}{20\%} &= \frac{175}{0.2} \\ &= \frac{1750}{20} = 875 \end{aligned}$$

2) 78 is 4% of what number?

$$\begin{aligned} \text{Base} &= \frac{78}{4\%} = \frac{78}{0.04} \\ &= \frac{7800}{4} = 1,950 \end{aligned}$$

Your Turn

1) 55 is 37% of what number?

$$\text{Base} = \frac{55}{37\%} = \frac{55}{0.37} = \frac{5500}{37}$$

2) 16.2 is 40% of what number?

$$\text{Base} = \frac{16.2}{40\%} = \frac{16.2}{0.4} = \frac{162}{4}$$

3) 59.6 is 89% of what number?

$$\text{Base} = \frac{59.6}{89\%} = \frac{59.6}{0.89} = \frac{5960}{89}$$

Reflection: I learned

**Helps
Keep
Students
Organized!**