

The background features several large, overlapping, semi-transparent swirls in light blue, light green, and light purple. Scattered throughout are small, yellow, triangular shapes that resemble rays of light or confetti.

Medical Math Lesson

Adding and Subtracting Decimals

September - 2012

Essential Question:

- How do I add and subtract decimals?

It is very important that you:



1. Always line up decimals

2. Add and subtract like you always do

3. Bring decimal straight down in your answers

Adding

Examples:

$$4.55 + 11.3$$

Put the first number on the top of the second number and line up the decimals.

$$\begin{array}{r} 4.55 \\ + 11.30 \\ \hline 15.85 \end{array}$$

You can add a zero to help keep everything lined up.

When adding or subtracting you always start from the right and work left.



$$6.44 + 16$$



When there is not a decimal put one behind the number.

$6+6=12$
Write down the 2 and carry the 1.

Line up the decimal

$$\begin{array}{r} 16.44 \\ + 16.00 \\ \hline 22.44 \end{array}$$

Add a zero to line up everything

8.33 + 10.972

Set up vertically and
line up
the decimals

$$\begin{array}{r} 1 \ 1 \\ 8.330 \\ + 10.972 \\ \hline 19.302 \end{array}$$

Annex (add) a zero which acts as a decimal place holder and helps lining up the numbers.



Adding a zero is also called annexing a zero. It doesn't change the value of the number.

Subtracting

Examples:



$$5.34 - 2.08$$

Put the larger number on the top of the smaller number and line up the decimals.

$$\begin{array}{r} 2 \\ \downarrow \\ 5.34 \\ -2.08 \\ \hline 3.26 \end{array}$$

$$14 - 8 = 6$$

$$2 - 0 = 2$$

$$5 - 2 = 3$$

*Don't forget you may
Need to borrow
from the left
to get the
job done'*

$$28 - 15.911$$

When there is not a decimal, as in the 28, put one behind the number.

$$\begin{array}{r} \begin{array}{|c|} \hline 7 \\ \hline \end{array} \begin{array}{|c|} \hline 9 \\ \hline \end{array} \begin{array}{|c|} \hline 9 \\ \hline \end{array} \\ \hline 28.000 \\ -15.911 \\ \hline 12.089 \end{array}$$

Stack them and line up the decimal points.

Add zeros to line up everything, then subtract.

Start borrowing from the left. Start with the first number smaller than the number under it.



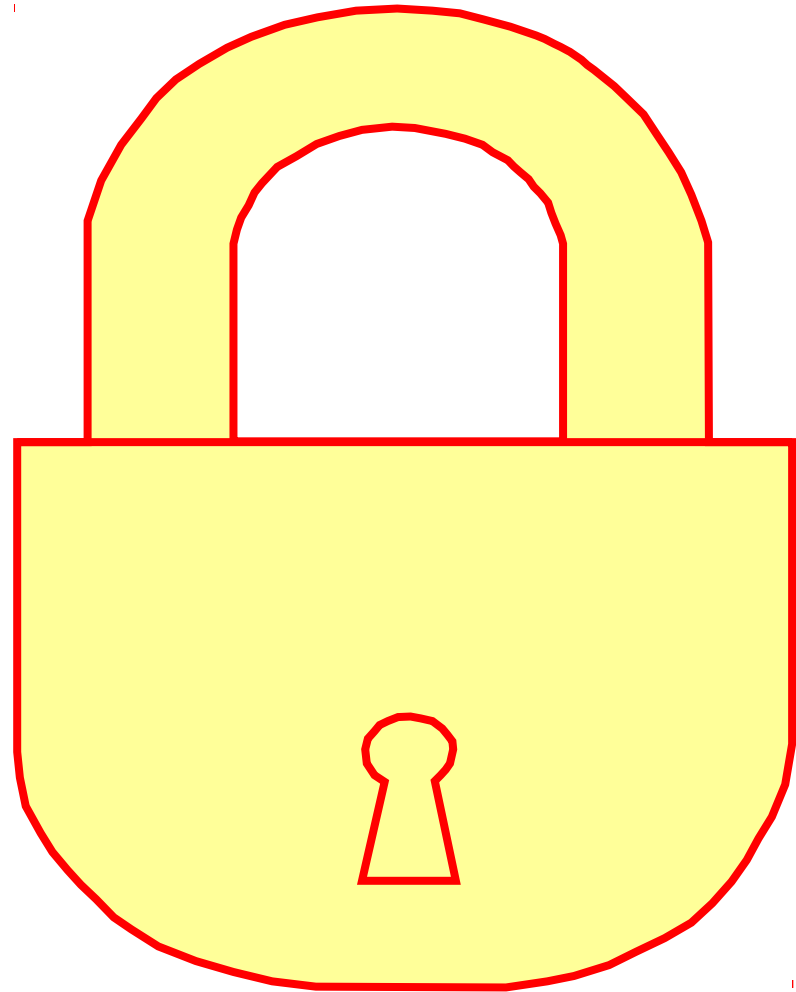
Magic Square


0.5 7

4.625

8.75

The sum of each row, column, and diagonal must be the same.





Assignment: Problems 1-16 to be completed without a calculator. Remember to show your work for any credit. Turn into your instructor.



Edmodo quiz on addition and subtraction of decimal values.