

Study Guide for Unit 4 Lesson 2

This lesson is a power drill of your skills in operating with whole numbers and decimals.

To add or subtract, line up the like place values, including the decimal.



Line up the decimal points...

$$\begin{array}{r} 8.97 \\ - 2.82 \\ \hline 6.15 \end{array}$$

and just drag that decimal point straight down!

Subtract as usual!

Line up the decimal points...

$$\begin{array}{r} 5.649 \\ + 39.27 \\ \hline 44.919 \end{array}$$


Carry (regroup) if you need to!

To Multiply:


Multiply the numbers.
Don't worry about the
decimal points just
yet.

$$\begin{array}{r} 1.124 \\ \times 1.5 \\ \hline 5620 \\ 1124 \\ \hline 16860 \end{array}$$

Count the total
number of decimal
places (or hops). In
this case there are 3
on the top and one on
the bottom.

$$\begin{array}{r} 1.124 \\ \times 1.5 \\ \hline 5620 \\ 1124 \\ \hline 16860 \end{array}$$


Place the decimal
point in the answer.
Use the same number
of hops (decimal
places) that you
counted.

$$\begin{array}{r} 1.124 \\ \times 1.5 \\ \hline 5620 \\ 1124 \\ \hline 1.6860 \end{array}$$


Another example:

$$\begin{array}{r}
 0.67 \\
 \times 0.4 \\
 \hline
 0.268
 \end{array}$$


2 decimal places

1 decimal place

3 decimal places

To divide:

Step 1




$$53.5 \overline{) 45.475}$$

➔

Move the decimal point in the divisor to make it a whole number.

Step 2




$$535 \overline{) 45.475}$$

➔

$$535 \overline{) 454.75}$$

Move the decimal point in the dividend the same number of places.

Step 3



$$535 \overline{) 454.75}$$

Move the decimal point straight up to the quotient.

Divide:



$$\begin{array}{r} .85 \\ 535 \overline{) 454.75} \\ \underline{4280} \\ 2675 \\ \underline{2675} \\ 0 \end{array}$$

Practice:

You have a savings account with a balance of \$423.98. You deposit \$61.75. Then you withdraw \$129.64. About how much is left in your account? What is the actual amount left in your account?

Estimate: _____

Actual balance: _____

Lucas bought three CDs for \$11.29, \$15.75, and \$8.95, including sales tax. He gave the clerk \$50.00. How much should Lucas receive in change?

Change: _____

It rained 0.77 inches on Monday. On Tuesday, it rained 0.23 inches more than on Monday. How much did it rain on both days combined?

Total rain: _____

Tyler bought movie tickets for himself and two friends. Each ticket costs \$8.50. You pay with two \$20 bills. How much did you spend? How much change did you receive?

Spent: _____

Change: _____

Five hungry friends share seven pizzas that cost \$8.25 each. How much does each friend pay?

Each friend pays: _____

The regular price on a box of ice-cream sandwiches is \$6.00. They are on sale for half off. If Mr. Campbell buys 10 boxes, what is the total cost of the ice cream sandwiches before tax?

Total cost: _____

Sam bought 5 rolls of ribbon to wrap presents. Each roll contains 10.5 meters of ribbon. If each present uses 1.4 meters of ribbon, how many presents can they wrap?

Amount of presents: _____

Additional Resources:

<http://studyjams.scholastic.com/studyjams/jams/math/index.htm>

http://www.mathplayground.com/howto_dividedecimals.html

http://www.mathplayground.com/howto_multiplydecimals.html

<https://www.khanacademy.org/math/pre-algebra/decimals-pre-alg/adding-decimals-pre-alg/v/subtracting-decimals?playlist=Developmental+Math>