Lesson 1-6 Dividing Decimals

SWBAT: Divide decimals and solve problems involving decimals by moving the decimal point to the correct locations.

Vocab words:

Dividend –

Divisor –

Three ways to show division: with the division symbol ÷, by showing the long division, and with fractions

Long division:

- From now on, we will not have _____ in our division answers. We need to find the _____ decimal answer.
- You need to add a _____ to your dividend and then add a _____. Keep adding zeros until your answer does not have a remainder.

To help you remember which number goes where in long division, remember: in and out!

Ex: 24 ÷ 5 34 ÷ 8 134 ÷ 6

Dividing a decimal by a whole number:

Long division with decimals is similar to long division with whole numbers. You place the dividend inside of the division box and the divisor outside the box.

- **Decimal divided by whole number,** _____.
- **Decimal divided by decimal**, move the decimal over on the _____ and move it on the inside the same number of times.
- **Whole number divided by decimal**, first make the whole number a _____! Move the decimal point on the outside over to the right. Move the decimal on the inside the same number of times

Again, remember to make the divisor a whole number by moving the decimal over to the right, make sure to move the dividend's decimal the same amount of times.

Try a few on your own:

Ex: ① 2.25 ÷ 0.5 ② 364.2 ÷ 12 ③ 38.27 ÷ 4.3

④ 29.5 ÷ 0.4 ⑤ 9.12 ÷ 0.6

Challenge: ① .144 ÷ .96 ②You and a friend are paid $38.25 for doing yard work. You work 2.5 hours and your friend works 2 hours. How much should you get for your share of the work?