Good day, dear scholars.

I will be out today, 12/4/24 as well. I hope to return soon. In the meantime, please work on this review worksheet while I am gone. It has some notes written for you to follow along with. Your instructions are as follows:

1. Complete this worksheet. It is due by the end of the week, on Sunday, 12/8.
2. If you complete this worksheet, upload it, then do your SumDog extra credit questions.

Sincerely,

- P. Vanegas

REVIEW: DIVIDING DECIMALS

Recall: Dividing decimals is almost identical to dividing with whole numbers, but now we must keep track of the decimal point.

Rule: The **divisor** (number you are dividing *by*) must be a whole number. Move the decimal point to the right until it becomes one – **then do the same amount of moves to the right to the dividend.**

Example I:

$$16.4 \div 0.4$$

$$0.4\overline{)16.4} \longrightarrow 4\overline{)164}$$

Move the decimal once to the right.
Then, divide like normal.

Example 2:

$$0.525 \div 0.15$$

$$0.15\overline{)0.525} \longrightarrow 15\overline{)525}$$

Move the decimal once to the right.
Then, divide like normal.
Bring the decimal up to the quotient.

<u>Your Turn:</u>

Answer the following questions.

<u>Skills</u>

1. Find the quotient: $0.25 \div 5$

2. Find the quotient: $0.16 \div 0.8$

3. Find the quotient: $1.25 \div 0.4$

4. Find the quotient: $25.6 \div 0.25$

    HINT: What should spaces after moving the decimal be filled in with?

5. Find the quotient: $475 \div 1000$

    HINT: 1000 does not fit into 475. What should we place after the last digit in the dividend, and how does this affect our quotient? You will need to place a decimal somewhere…

6. Find the quotient: $35.21 \div 0.07$

7. Find the quotient: $14.4 \div 1.2$

8. Find the quotient: $4.05 \div 0.27$

9. Find the quotient: $10.66 \div 13$

10. Find the quotient: $3.096 \div 0.43$

<u>Word Problems and Analysis</u>

1. Rafael spends $21.10 on two shirts. How much does each shirt cost?

2. Lourdes went to the store and bought two appetizers and an entrée. Her total bill was $35.44. If the entrée cost $15.22, how much did **each** appetizer cost?

3. A wheel of cheese weighs 2.5kg. When someone orders a piece of it, a 0.125kg chunk is cut off. If the whole wheel is used, how many 0.125kg chunks can be used?

4. Tamara and john are going on a 12.9mi drive. They will take 5 breaks along the way, equally spaced. How many miles will they drive before taking a break?

5. Preparing for a party, Chuckie spent 3.6 times more this week on groceries than last week. If he spent $187.56 this week on groceries, then have much did he spend last week?
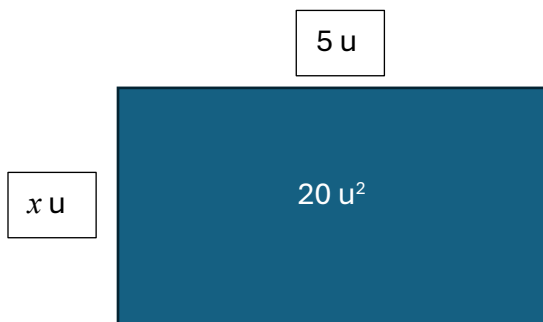
Think about what division is. It's the **inverse operation** of **multiplication.** That means that it "undoes" or "reverses" multiplication. Let's see how that can be used in other math areas.

Speaking of *areas,* the Area of a square is the length times width. This is expressed as the following formula:

$$A = l \times w$$

Where A is Area, l is length, and w is width. Imagine I have an area and one length. How could I use this information to find the length of the other side? Well, instead of finding the area, let's do the **inverse – find a side**, by doing the **inverse operation – dividing!** Divide the area by the length of one side to find the other side.

5 u

x u

20 u²

Example:

The rectangle on the left has an area of 20 units² and one side length of 5. What is the length of the missing side?
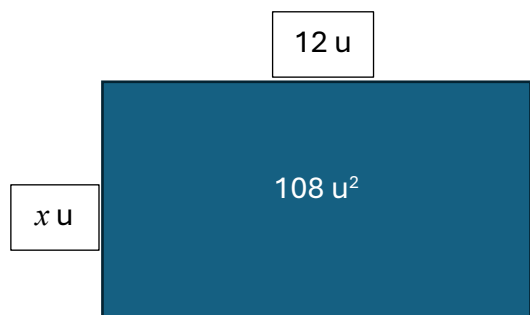
Divide.

$$x = 20 \div 5$$

$$x = 4.$$

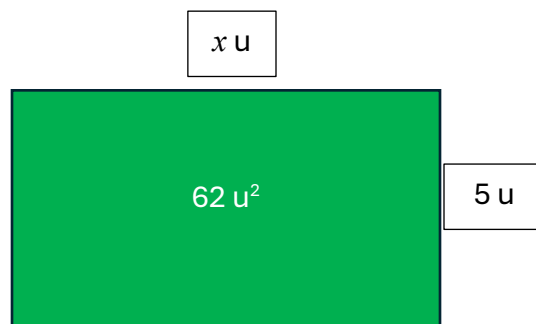It's that straight forward! And we know this is right because if we reverse the process, we get the same area. $A = l \times w$, so $A = 4 \times 5$, and finally, $A = 20$. We got the same area!

12 u

108 u²
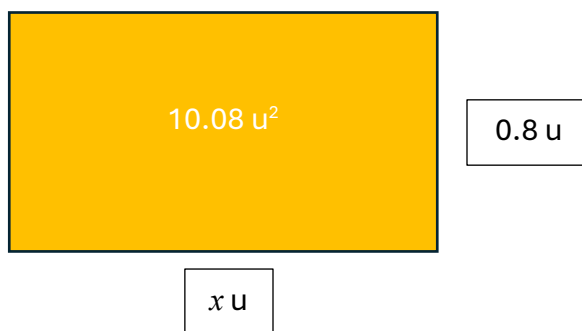
x u

1. Find the missing side length of the figure on the left.

2. Find the missing side length of the figure on the right.

x u

62 u²

5 u

3. Find the missing side length of the figure below.

10.08 u²

0.8 u

x u

4. Mischa walked around a rectangular park with an area of 2.94mi². If the length of one side of the park is 2.1mi, how much is the width?