

Divide Decimals

Lesson 1-7


Name: _____

Date: _____

Class: _____

Key Vocabulary Level 2 Standard

Picture first, then the word, then a plain-language meaning. Say each word out loud.




12 dots

$12 \div 3 = 4$

In $8.4 \div 2.1 = 4$, the dividend is 8.4 – it is the total being split

Dividend

Write the definition:




$12 \div 3 = 4$

In $8.4 \div 2.1 = 4$, the divisor is 2.1 – it is the size of each group

Divisor

Write the definition:

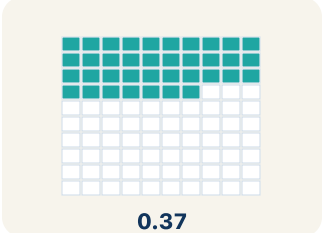


$12 \div 3 = 4$

In $8.4 \div 2.1 = 4$, the quotient is 4 – there are 4 groups

Quotient

Write the definition:



0.37

$8.4 \div 2.1 \rightarrow$ multiply both by 10 $\rightarrow 84 \div 21 = 4$

Decimal division

Write the definition:



$$6 \div 3 = 2$$

$$7.56 \div 0.12 = 756 \div 12 = 63 \text{ (both multiplied by 100)}$$

Equivalent division

Write the definition:

Guided Notes Level 2 Standard



WHAT WE'RE LEARNING TODAY

I can divide with decimals by making the divisor a whole number first.



Fill in each blank as we go. Use the Word Bank to help you.



WORD BANK – FILL EACH BLANK WITH THE BEST WORD

Dividend

Divisor

Quotient

Decimal division

Equivalent division



Tap any word to see what it means and a picture.

1

In a division problem, the number being divided is the .

2

In a division problem, the number we divide by is the .

3

The answer to a division problem is the .

4

Dividing numbers that include a decimal point is called .

5

Multiplying both the dividend and divisor by the same power of 10 creates an that is easier to solve.



Watch & Try – Worked Examples

See the notes in action: watch one worked all the way through, then try the next with the same steps.

 **I do – watch**


Follow each step as your teacher solves it.

Problem: What is $14.4 \div 1.2$?

- A. 12
- B. 1.2
- C. 120
- D. 0.12

Step 1 Multiply both by 10: $144 \div 12 = 12$.

 **Answer:** A. 12

 **We do – together**

Solve this one with your class using the same steps.

Problem: What is $3.78 \div 0.6$?

- A. 6.3
- B. 63
- C. 0.63
- D. 0.063

Step 1 _____

Step 2 _____

Answer: _____

 **You do — your turn**

Now try one on your own. Show every step.

Problem: What is $8.4 \div 0.7$?

- A. 12
- B. 1.2
- C. 120
- D. 0.12

Show your work:

Try It

Solve on your own. Check the answer key when you are done.

1. A recipe uses 9.6 cups of flour to make 3 equal batches of muffins. How many cups of flour go in each batch?

- A. 3.2 cups
- B. 2.3 cups
- C. 32 cups
- D. 6.6 cups

Show your work:

2. The arcade corner has 4.8 meters of token ribbon, cut into 0.6-meter prize strips. How many strips can the cafe make?

- A. 8 strips
- B. 0.8 strips
- C. 80 strips
- D. 4.2 strips

Show your work:

Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

A gas station sells fuel at \$3.45 per gallon. A customer pays \$27.60 total. How many gallons did the customer buy? Set up the decimal division, show how to convert it to whole-number division, and solve.

Sentence starter: The equation is $\$27.60 \div \$3.45 = \underline{\quad}$. I multiply both by $\underline{\quad}$ to get $\underline{\quad} \div \underline{\quad} = \underline{\quad}$ gallons.

Show your work:

Reflect — Exit Ticket

What is $19.2 \div 0.8$?

- A. 24
- B. 2.4
- C. 240
- D. 0.24

Your answer:
