

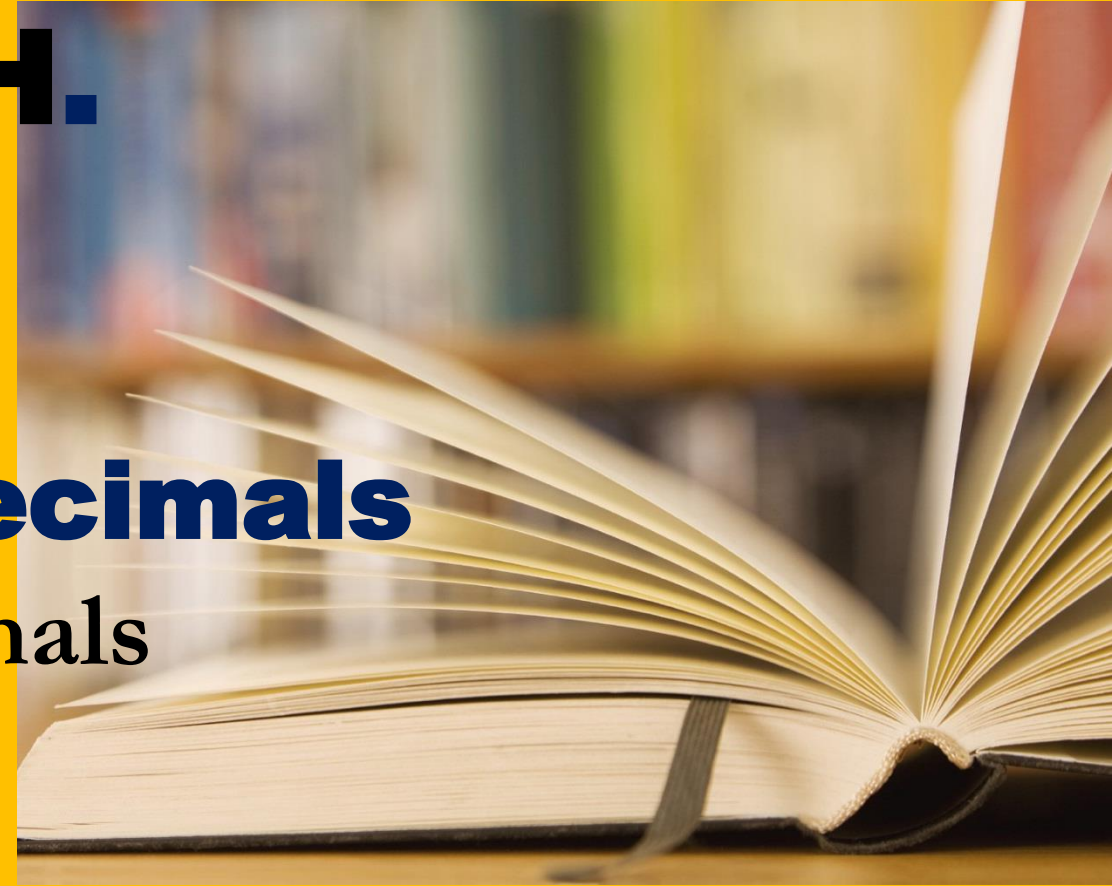


GRADE 5- MATH.

T2 ..WEEK 2

CHAPTER 4: Multiply Decimals

L 4.7 :- Multiply Decimals



MS. NOURA, MS. NAAZ.



OBJECTIVE: Students will place the decimal point in decimal multiplication.



STARTER

Think of 5 possibilities for each number sentence.

$$\boxed{?} + \boxed{?} = \boxed{100}$$

$$\boxed{?} - \boxed{?} = \boxed{100}$$



Decimal	A number with one or more digits to the right of the decimal point.
Expanded Form	A way to write a number that shows the value of each digit.
Hundredths	One of one hundred equal parts
Multiplication	The process used to find the total number of items in a given
Ones	The value of a digit in the ones position on a place value chart
Pattern	A repeating sequence that follows a rule that repeats
Place Value	The value of a digit in a number based on the location of the digit
Product	The result when you multiply two numbers
Tenths	One of ten equal parts
Thousandths	One of one thousand equal parts



To multiply decimals:

1. Write the problem vertically, lining up the numbers as if they are whole numbers. **Do NOT** line up decimal points.

$$4.8 \times .31$$

$$\begin{array}{r} 4.8 \\ \times .31 \\ \hline \end{array}$$





2. Multiply as if they are whole numbers.

$$4.8 \times .31$$

$$\begin{array}{r} 4.8 \\ \times .31 \\ \hline 48 \\ + 1440 \\ \hline 1488 \end{array}$$





3. Count the total number of decimal places in the factors.

$$\begin{array}{r} 4.8 \\ \times 3.1 \\ \hline 48 \\ + 1440 \\ \hline 1448 \end{array}$$

You have 1 decimal place in the first factor.

You have 2 decimal places in the second factor.

For a total of 3 decimal places.

Final Answer: 1.448





Another Example:

1. Write the problem vertically, lining up the numbers as if they are whole numbers. **Do NOT** line up decimal points.

$$.123 \times .43$$

$$\begin{array}{r} .123 \\ \times .43 \\ \hline \end{array}$$





2. Multiply as if they are whole numbers.

$$.123 \times .43$$

$$\begin{array}{r} .123 \\ \times .43 \\ \hline 369 \\ + 4920 \\ \hline 5289 \end{array}$$





3. Count the total number of decimal places in the factors.

$$.123 \times .43$$

$$\begin{array}{r} .123 \\ \times .43 \\ \hline 369 \\ + 4920 \\ \hline 5289 \end{array}$$

You have 3 decimal places in the first factor.

You have 2 decimal place in the second factor.

For a total of 5 decimal places.





$$\begin{array}{r} .123 \\ \times .43 \\ \hline 369 \\ + 4920 \\ \hline \boxed{0}5289 \end{array}$$

What do I do now? I have an "empty space"?

Add a zero.

Final Answer: .05289





Name: _____

Date: _____

Mathematics Multiplying Decimals

Remember the following steps to multiplying decimals:

$\begin{array}{r} 3.1 \\ \times 5.9 \\ \hline 279 \\ + 155 \\ \hline 1829 \end{array}$	$\begin{array}{cc} 3.1 \times 5.9 \\ \uparrow \quad \uparrow \\ \textcircled{1} \quad \textcircled{2} \end{array}$	$\begin{array}{r} 1829 \\ 18.29 \\ \hline \textcircled{2} \quad \textcircled{1} \end{array}$
--	--	--

So, $3.1 \times 5.9 = 18.29$

Multiply the following numbers on a sheet of paper. Match the correct answer to each equation.

1. $2.5 \times 0.4 =$ _____

9.69

2. $4.5 \times 4 =$ _____

1

3. $3.23 \times 3 =$ _____

41.4

4. $0.76 \times 0.23 =$ _____

7.5

5. $3.45 \times 12 =$ _____

10.23

6. $1.25 \times 6 =$ _____

0.1748

7. $8.27 \times 300 =$ _____

2481

8. $1.24 \times 8.25 =$ _____

18



PLENARY –

Your Turn:

$$\begin{aligned} \text{a) } & 23.1 \times 4.2 \\ & = 97.02 \end{aligned}$$

$$\begin{aligned} \text{b) } & 1.52 \times 3 \\ & = 4.56 \end{aligned}$$





Success Criteria:

Students will be able to place the decimal point in decimal multiplication.

