

2nd Quarter – Week 1

Adding, Subtracting, Multiplying, and Dividing Decimals

Adding Decimals

$2. \quad 136.75 + 0.785 =$

$3. \quad 11.2 + 5.9823 =$

$4. \quad 145.4 - 7.4 =$

$5. \quad 3.96 - 2.45 =$

Adding Decimals

$$2. \quad 136.75 + 0.785 = 137.535$$

$$3. \quad 11.2 + 5.9823 = 17.1823$$

$$4. \quad 145.4 - 7.4 = 138.0 \text{ or } 138$$

$$5. \quad 3.96 - 2.45 = 1.51$$

Adding Decimals Rules to Follow

Always write a number sentence vertically

Remember to line up your decimals

Add zeroes or “x” as placeholder or value

Apply whole number addition rules

When adding, bring the decimal down in the sum (total)

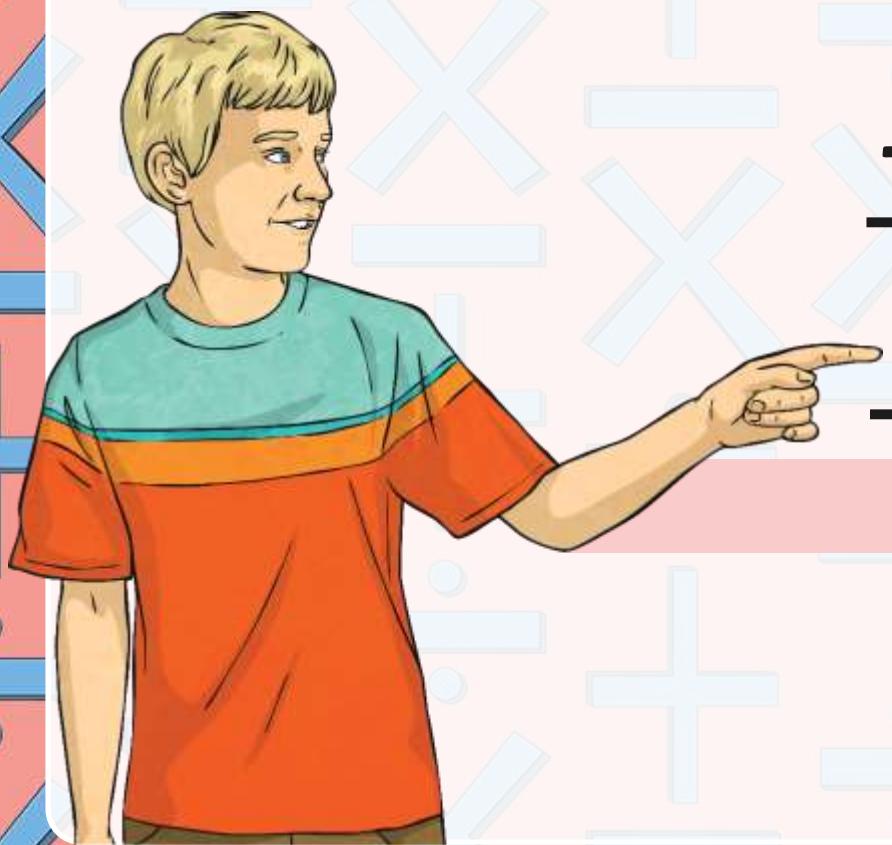
$$\begin{array}{r} 51.37 \\ + 24.50 \\ \hline \end{array}$$

Remember to line up your decimals when adding.

Bring down your decimal to the sum.

Addition Example:

Let's work it out together!



$$\begin{array}{r} 5.259 \\ + 2.5 \\ \hline \end{array}$$

Line up your decimals!

Solving for Addition:

Remember to line up your decimals when adding.

$$\begin{array}{r} 5.259 \\ + 2.5XX \\ \hline 7.759 \end{array}$$

The “X” represents zero place holder or value.

Practice: Your Turn

Solve the problem below. Remember to line up your decimal points when trying to solve.

$$\begin{array}{r} 5.891 \\ + 3.25 \\ \hline \end{array}$$



Start

Let's share out and solve!

We are adding the following: $5.891 + 3.25$

$$\begin{array}{r} 5.891 \\ + 3.25X \\ \hline 9.141 \end{array}$$

Remember to place a zero or x as a placeholder.



Line up your decimal points!

Subtraction Decimal Rules to Follow

Write number sentence vertically

Line up the decimals

Insert zeroes or “x” for placeholder or value

Follow whole number subtraction rules

Remember to bring the decimal down to find the difference

$$\begin{array}{r} 5.1 \\ - 2.37 \\ \hline \end{array}$$

Practice: Your Turn

Let's work it out together!

$$\begin{array}{r} 65.5 \\ - 15.50 \\ \hline \end{array}$$



Solving for Subtraction

Remember to line up your decimals.

$$\begin{array}{r} 65.5 \\ - 15.50 \\ \hline 50.00 \end{array}$$

Remember to use a zero or "x" as a placeholder or value.



Practice: Your Turn

Solve the problem below. Remember to line up your decimal points when trying to solve.

$$\begin{array}{r} 45.6 \\ - 21.58 \\ \hline \end{array}$$

Add a zero or “x” as a placeholder



Start

Let's share out and solve!

Solve the problem below. Remember to line up your decimal points when trying to solve.

$$\begin{array}{r} 45.60 \\ - 21.58 \\ \hline 24.02 \end{array}$$

Add a zero or “x” as a placeholder



Multiplying Decimals Rules

Write number sentence vertically

The number with the least digits needs to be on the bottom

Do **NOT** line up the decimal points

Add **NOT** add zeroes

Multiply following whole number multiplication rules

Count how many digits are to the right of each decimal and add them together

Move the decimal over to the left that many spaces

Multiplying Decimals Rules

$$\begin{array}{r} 3.1 \\ \times 5.9 \\ \hline 279 \\ + 155 \\ \hline 1829 \end{array}$$

1 2
↓ ↓
 3.1×5.9

1829
18.29
2 1
 ↑ ↓

Multiplication Example:

Let's work it out together!

$$\begin{array}{r} 2.8 \\ \times 2.3 \\ \hline \end{array}$$



Solving for Multiplication

Let's work it out together!

$$\begin{array}{r} & 2.8 \\ \times & 2.3 \\ \hline & 6.44 \end{array}$$

Remember to move your decimal two places after solving.



Hint: How many numbers are to the right of the decimals? Add them together to move your decimal.

Practice: Your Turn

Solve the following multiplication problem using strategies you have learned by applying the multiplication rules.

$$\begin{array}{r} 5.8 \\ \times 2.1 \\ \hline \end{array}$$



Start

Let's Solve And Share

Using and applying strategies you have learned through multiplication rules, let's solve:

$$\begin{array}{r} 5.8 \\ \times 2.1 \\ \hline 12.18 \end{array}$$

Did you remember to move your decimal two places?



Dividing Decimals Rules

Write a number sentence with a dividend and a divisor

Move the decimal in the divisor over until it is written as whole number

Move the decimal the same number of places over in the dividend

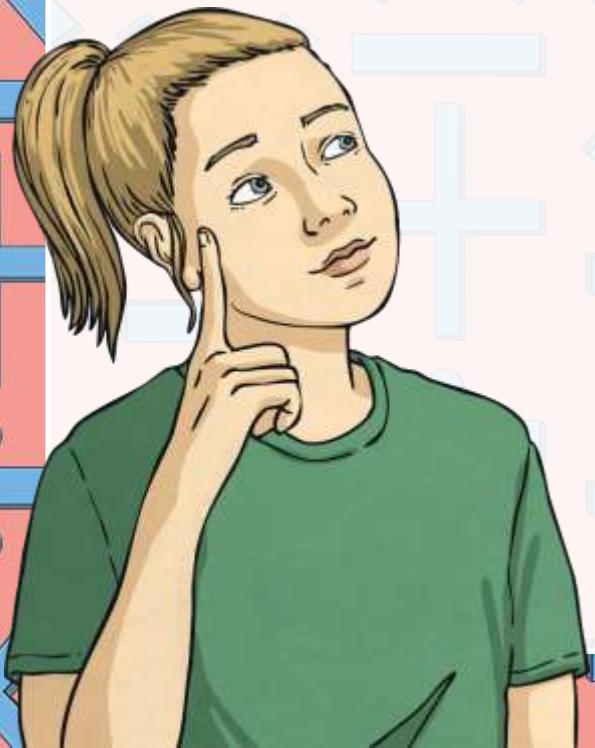
Add zeroes if needed

Move the decimal straight up

Divide following whole number division rules

Dividing Decimals Rules

$$14.8 \div 4 = 3.7$$



$$\begin{array}{r} 3.7 \\ 4 \overline{)14.8} \\ 12 \downarrow \\ \underline{28} \\ 28 \underline{\underline{0}} \end{array}$$

Division Example:

$$12.44 \div 0.02$$

Two decimal places in 0.02

$$\begin{array}{r} 0.02 \boxed{12.44} \\ \end{array}$$

$$\begin{array}{r} 622 \\ 2 \boxed{1} 244 \\ 12 \downarrow \\ 4 \\ 4 \downarrow \\ \hline 04 \\ 4 \\ \hline 0 \end{array}$$

Exit Ticket

With a partner, solve the following two problems.

$$\begin{array}{r} 25.75 \\ + 35.0 \\ \hline \end{array}$$

$$\begin{array}{r} 45.75 \\ - 10.1 \\ \hline \end{array}$$



You Made It To The Finish Line!

Any Questions?

