

Name _____

Class _____

Date _____

Review: What is a decimal?

One way to think of a decimal is as a number with a decimal point.
Each digit in a decimal represents a specific number based on place value.

Parts of a Decimal

Decimal point: separates the whole number from the fractional part of the decimal.

263.45

Whole numbers: each digit represents a Base 10 number based on place value.

Decimal digits: digits to the right of the decimal point represent fractional values.

1. What is the word form of the decimal?

2. What is the expanded notation of the decimal?

Name _____

Class _____

Date _____

Review: What is a decimal?

One way to think of a decimal is as a number with a decimal point.
Each digit in a decimal represents a specific number based on place value.

Parts of a Decimal

Decimal point: separates the whole number from the fractional part of the decimal.

263.45

Whole numbers: each digit represents a Base 10 number based on place value.

Decimal digits: digits to the right of the decimal point represent fractional values.

1. What is the word form of the decimal?

2. What is the expanded notation of the decimal?

Adding Decimals: Straighten Up, Fill Up, Add Up!

Straighten Up those points until they all align
Fill Up blank spaces with zeroes; check the signs
Add Up the decimals and find the sum
 Review your answers and then you're done

<u>Straighten Up</u>	<u>Fill Up</u>	<u>Add Up</u>	<u>Review</u>
Align the decimal points so that the place values of the digits match. <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> $\begin{array}{r} 3.4 \\ 0.287 \\ +79.55 \\ \hline \end{array}$ </div>	Annex (add) zeroes to the fractional part of the decimal (right of decimal point). <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> $\begin{array}{r} 3.400 \\ 0.287 \\ +79.550 \\ \hline \end{array}$ </div>	Add just like whole numbers! Remember to drop down the decimal point. <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> $\begin{array}{r} 3.400 \\ 0.287 \\ +79.550 \\ \hline 83.237 \end{array}$ <p style="text-align: center; margin-top: 5px;"> Drop down decimal point. </p> </div>	Always check your work for calculation errors. Also, make sure that your answer reflects what the question or prompt requires for a solution.

Find the sum.

(1) $4.8 + 3.80009$	(2) $0.076 + 0.764$	(3) $2.1 + 0.7 + 9.3$	(4) $104.45 + 0.06$	(5) $1.0012 + 8.37$
---------------------	---------------------	-----------------------	---------------------	---------------------

<u>What if the decimals have different signs?</u>	Examples	Your turn
If there are two decimals, use the rules for adding integers.	Find the sum: $-55.9 + 29.8$ $ -55.9 = 55.9$ and $ 29.8 = 29.8$ $55.9 - 29.8 = -26.1$ The sum is negative because -55.9 has the greater absolute value.	Find the sum: $-9.31 + 0.0548$
If there are more than two decimals, use the associative property and the commutative property.	Find the sum: $3.2 + (-0.41) + 6.5$ $(3.2 + 6.5) + (-0.41)$ [The associate and commutative properties allow you to change the order and grouping of the decimals.] $9.7 + (-0.41)$ $9.7 - 0.41 = 9.29$	Find the sum: $-7.23 + 8.9 + (-0.95)$

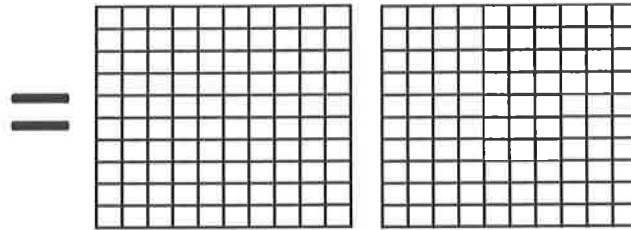
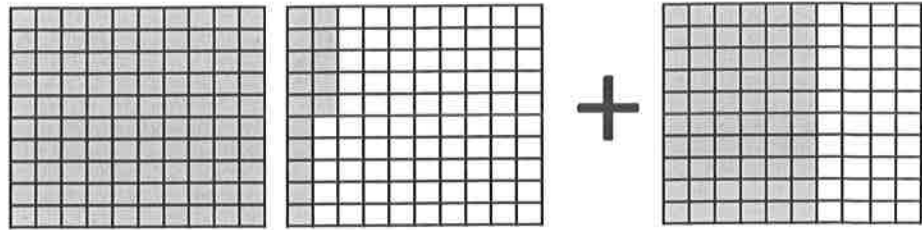
Name _____ Class _____ Date _____

Modeling Decimal Addition

10 x 10 grids

Combine the shaded sections of the grids and fill in the last grid until it represents the fractional part of the sum.

Model the sum of the grids. Write the decimal addition sentence in the box.



Decimal addition sentence

Number lines

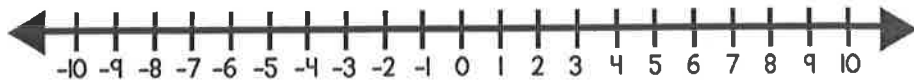
1. Insert a point above the mark representing the first number.
2. Draw a ray the distance of the second number (if positive, go right. If negative, go left).
3. The position of the ray's tip represents the sum.

Use the number lines to represent the sum of the decimals.

$$3.5 + 9.0$$



$$4.5 + (-10.5)$$

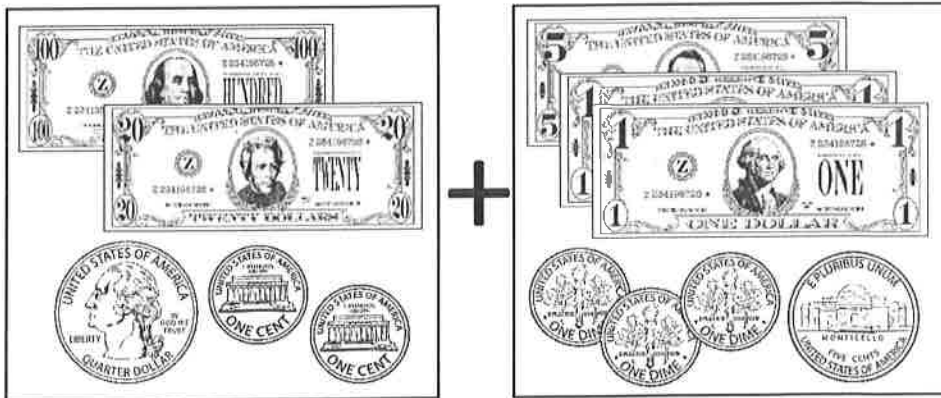


Real World: Money

Most people use decimals everyday! Money (U.S.) represents decimals rounded to the hundredths place.

To model, simply draw money or count money to represent the addends or the sum.

What is the sum of the money shown below?



CLIP THE SCRIPT! 

Clip the scenarios to size. Match the solutions of the scenarios to the column of sums.

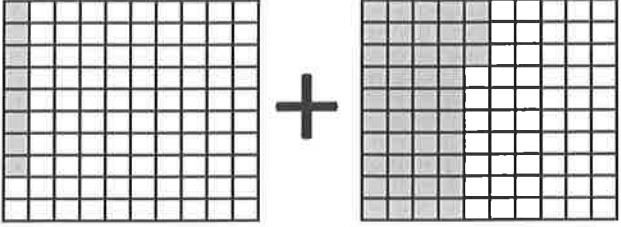
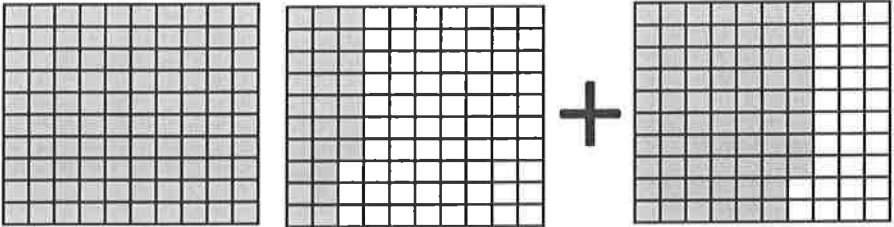
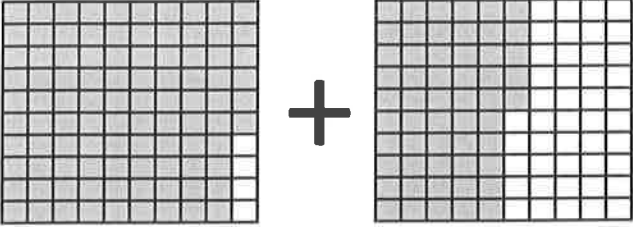
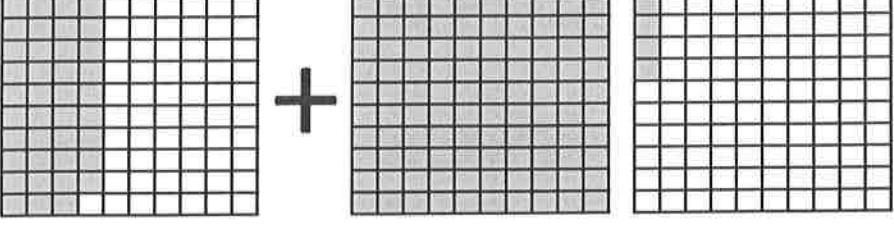
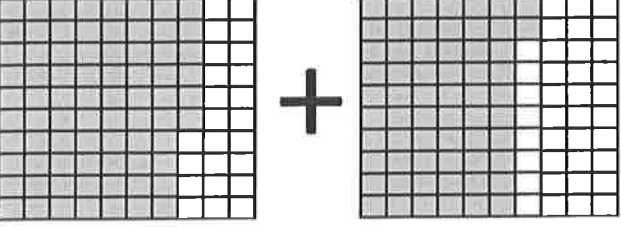
19.2	
1.318	
5.97	
17.49	

14.5	
135.62	
390.37	
22.5	

<p>Chloe spent \$51.35 to fill up her gas tank and \$84.27 to purchase groceries. How much did she spend in total?</p>	<p>Mountain climbers spend two months at base camp, which is 1.95 kilometers above sea level. The summit of the mountain is 4.02 kilometers from the base camp. How tall is the mountain?</p>
<p>On Saturday, James ran 10.5 miles and Bella ran 8.7 miles. What is the combined number of miles James and Bella ran?</p>	<p>A flock of migrating birds flew 124.5 miles the first day, 129.8 miles the second day, and 136.07 miles the third day. How many miles did the birds fly in three days?</p>
<p>A serving of breakfast cereal has 4.9 grams of protein and 17.6 grams of sugar. How many grams of protein and sugar are in one serving of cereal?</p>	<p>Bryan was playing a game app. He purchased 10 power packs for \$10.99 and 4 extra lives for \$6.50. How much money did he spend on power packs and extra lives?</p>
<p>The population of Dallas, Texas, is 1.258 million. The population is expected to grow another 0.06 million in the next 5 years. How many millions of people will live in Dallas in five years?</p>	<p>Penelope downloaded three songs onto her phone. The first song was 4.5 megabytes (MB). The second song was 5.1 MB. The third song was 4.9 MB. How many megabytes in songs did Penelope download?</p>

Models. INK.

Review the models. "Ink" the models by recording the values they represent and finding the sums.

Models	INK
	
	
	
	
	

Adding Decimals Exit Ticket

Name _____
Class _____
Date _____

Find the sum.

1. $8.3 + 0.07$

2. $65.009 + 1.51$

3. $0.04 + (-0.2)$

Adding Decimals Exit Ticket

Name _____
Class _____
Date _____

Find the sum.

1. $8.3 + 0.07$

2. $65.009 + 1.51$

3. $0.04 + (-0.2)$

Adding Decimals Exit Ticket

Name _____
Class _____
Date _____

Find the sum.

1. $8.3 + 0.07$

2. $65.009 + 1.51$

3. $0.04 + (-0.2)$

Adding Decimals Exit Ticket

Name _____
Class _____
Date _____

Find the sum.

1. $8.3 + 0.07$

2. $65.009 + 1.51$

3. $0.04 + (-0.2)$

Adding Decimals Exit Ticket

Name _____
Class _____
Date _____

Find the sum.

1. $8.3 + 0.07$

2. $65.009 + 1.51$

3. $0.04 + (-0.2)$

Adding Decimals Exit Ticket

Name _____
Class _____
Date _____

Find the sum.

1. $8.3 + 0.07$

2. $65.009 + 1.51$

3. $0.04 + (-0.2)$

Name _____ Class _____ Date _____

Score

Adding Decimals Homework

<p>1. Find the sum.</p> <p style="text-align: center;">$6.43 + 9.154$</p>	<p>2. Find the sum.</p> <p style="text-align: center;">$0.72 + 0.0341$</p>	<p>3. Find the sum.</p> <p style="text-align: center;">$1.009 + 0.883$</p>	<p>4. Find the sum.</p> <p style="text-align: center;">$121.006 + 39.07$</p>	<p>5. Find the sum.</p> <p style="text-align: center;">$7.75 + 0.43$</p>
--	---	---	---	---

6. Find the sum.

$-6.78 + 5.99$

7. Find the sum.

$4.25 + (-0.81)$

8. Record the values represented by the 10×10 grids. Find the sum.

9. Model the sum of $0.25 + 1.50$ on the number line.

10. Model the sum of $2.5 + (-3.5)$ on the number line.