

Name _____

Add Decimals

Lesson 6

ESSENTIAL QUESTION ?

How can I use place value and properties to add and subtract decimals?

To add decimals, line up the decimal points and add the digits in the same place-value position.



Math in My World



Example 1

Mr. Jacobson uses a digital scale to measure 44.2 milligrams of sodium for a chemistry experiment. During the second experiment, he used 33.1 milligrams of sodium. What is the total amount of sodium used?

Find $44.2 + 33.1$.

Estimate $44 + 33 =$ _____

1 Line up the decimal points.

2 Add the digits in the same place-value positions.

3 Bring the decimal point straight down in the sum.

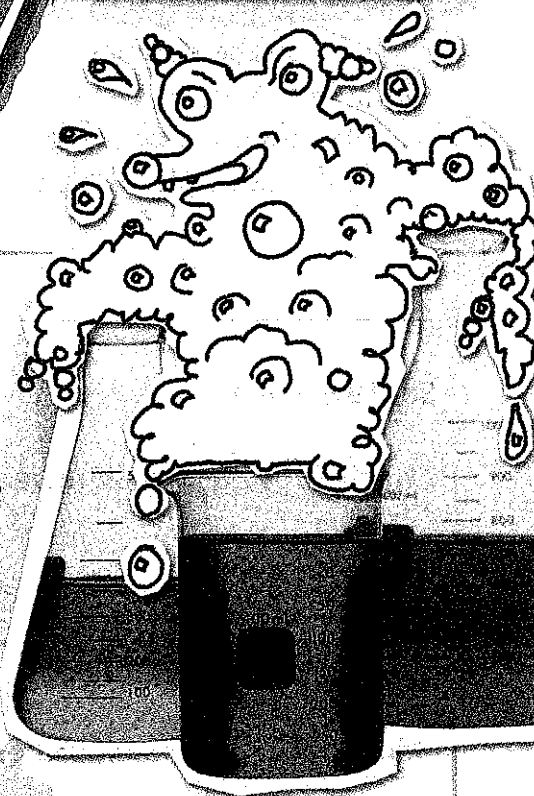
$$\begin{array}{r} 44.2 \\ + 33.1 \\ \hline \square\square.\square \end{array}$$

So, the total amount of sodium used is _____ milligrams.

Check for Reasonableness

Compare to the estimate, _____

≈



	Tens	Ones	Tenths
	4	4	2
+	3	3	1
	7	7	3

You can annex a zero to one of the numbers in an addition problem so that both numbers end in the same place value.

Example 2



Find $19.6 + 4.31$.

Estimate $20 + 4 =$ _____

1 Line up the decimal points. Annex a 0 so that both numbers end in the same place value.

$$\begin{array}{r} 19.60 \\ + 4.31 \\ \hline \square\square.\square\square \end{array}$$

2 Add the digits in the same place-value positions. Rename as necessary.

3 Bring the decimal point straight down in the sum.

So, $19.6 + 4.31 =$ _____

Check for Reasonableness Compare to the estimate, _____

\approx

Guided Practice



Add. Check for reasonableness.

1.
$$\begin{array}{r} 6.32 \\ + 1.46 \\ \hline \square.\square\square \end{array}$$

Estimate $6 + 1 =$ _____

So, $6.32 + 1.46 =$ _____

Check for Reasonableness

\approx

2.
$$\begin{array}{r} 0.89 \\ + 0.03 \\ \hline \square.\square\square \end{array}$$

Estimate $1 + 0 =$ _____

So, $0.89 + 0.03 =$ _____

Check for Reasonableness

\approx

Talk MATH

Explain how annexing zeros might be helpful when adding decimals.



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