

MAIN IDEA

- Add and subtract decimals.

REVIEW IT

Explain how to estimate the sum of two decimals using rounding.
(Lesson 3-4)

EXAMPLES Add and Subtract Decimals

1 Find the sum of 75.6 and 21.3.

Estimate $75.6 + 21.3 \approx 76 +$ or

$$\begin{array}{r} 75.6 \\ + 21.3 \\ \hline \end{array}$$

Line up the decimal points.

Add as with whole numbers.

The sum of 75.6 and 21.3 is .

Compare the answer to the estimate. The answer is reasonable.

2 Find $10.756 - 6.238$.

Estimate $10.756 - 6.238 \approx$ $- 6$ or

$$\begin{array}{r} 10.756 \\ - 6.238 \\ \hline \end{array}$$

Line up the decimal points.

Subtract as with numbers.

So, $10.756 - 6.238 =$.

Check for Reasonableness: $4.518 \approx 5$ ✓

Check Your Progress

a. Find the sum of 34.6 and 53.2.

b. Find $24.758 - 18.315$.

EXAMPLE Annex Zeros**WRITE IT**

Explain in your own words how to find the difference between a whole number and a decimal.

1 Find $8 - 1.74$.**Estimate** $8 - 1.74 \approx$ $-$ or

$$\begin{array}{r} 8.00 \\ - 1.74 \\ \hline \end{array}$$

Annex zeros so that both numbers have the same place value.

So, $8 - 1.74 =$. Check for Reasonableness: $6.26 \approx 6$ ✓**Check Your Progress** Find $9 - 3.28$.
EXAMPLE**4** **WORLD RECORDS** The table shows the diameters of three of the largest food items ever created. What is the difference, in meters, between the world's largest pizza and the largest pancake?

Largest Food Items		
Food	Country	Diameter (meters)
pizza	South Africa	37.4
pecan pie	United States	15.24
pancake	United Kingdom	15.01

Source: Guinness World Records

Estimate $37.4 - 15.01 \approx$ $-$ or

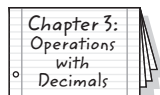
$$\begin{array}{r} 37.40 \\ - 15.01 \\ \hline \end{array}$$

Line up the decimal points. Annex a zero.

Subtract as with whole numbers.

FOLDABLES**ORGANIZE IT**

Under Lesson 3-5 of your Foldable, write a few sentences explaining how adding and subtracting decimals is like adding and subtracting whole numbers.



The largest pizza is meters larger than the largest pancake.

Check for Reasonableness: $22.39 \approx 22$ ✓

Check Your Progress

MOVIES The local movie theater sells an average of 65.8 tickets on Thursdays and an average of 288.9 tickets on Saturdays. How many more tickets are sold on Saturdays?

REVIEW IT

What is an algebraic expression? How do you evaluate an algebraic expression? (Lesson 1-5)

EXAMPLE

Evaluate an Expression

5 ALGEBRA Evaluate $a - b$ if $a = 10.75$ and $b = 4.8$.

$$a - b = 10.75 - 4.8 \quad \text{Replace } a \text{ with } 10.75 \text{ and } b \text{ with } 4.8.$$

Estimate $10.75 - 4.8 \approx$ $-$ or

10.75	Line up the <input type="text"/> .
<u>- 4.80</u>	Annex a <input type="text"/> .
<input type="text"/>	Subtract as with <input type="text"/> numbers.

The value is . Check for Reasonableness: $5.95 \approx 6$ ✓

Check Your Progress

ALGEBRA Evaluate $m + n$ if $m = 40.62$ and $n = 29.51$.

HOMEWORK ASSIGNMENT

Page(s):

Exercises: