

Addition and Subtraction with Decimals

Lesson 3-3

DATE _____

TIME _____



Math Message

- 1 Marilyn owns a tablet that has 75.2 megabytes of available space. First she downloads a song that takes 4.72 megabytes of space. Then she downloads an application that uses 62.5 megabytes of space.

Estimate how many megabytes of available space Marilyn has after downloading the song and the application.

Write a number sentence for your estimate: _____

- 2 Exactly how many megabytes of space does Marilyn have after downloading the song and the application? Show how you solved the problem.

$$\begin{array}{r}
 75.20 \\
 - 4.72 \\
 \hline
 70.48
 \end{array}$$

$$\begin{array}{r}
 75 \\
 - 63 \\
 \hline
 12
 \end{array}$$

$$\begin{array}{r}
 70 \\
 - 63 \\
 \hline
 7
 \end{array}$$

$$\begin{array}{r}
 75.20 \\
 - 62.50 \\
 \hline
 12.70
 \end{array}$$

$$\begin{array}{r}
 67.148 \\
 - 62.50 \\
 \hline
 4.648
 \end{array}$$

≈ 7

Solution: _____

- 3 Santoki solved Marilyn's problem in the following way:

Step 1

$$\begin{array}{r}
 4.72 \\
 + 62.5 \\
 \hline
 1.097
 \end{array}$$

Step 2

$$\begin{array}{r}
 75.20 \\
 - 1.097 \\
 \hline
 6.423
 \end{array}$$

Solution: 6.423 megabytes

What mistake(s) did Santoki make? _____

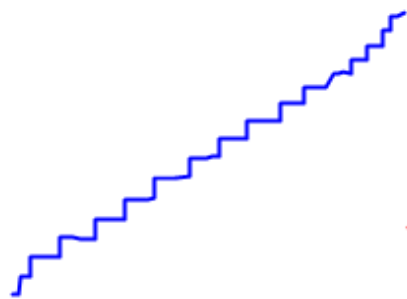
What questions might you ask Santoki to help him see his mistake?

3.3 Adding and Subtracting Decimals

$$3.6 + 49.8$$

$$\begin{array}{r} 1\ 3.6 \\ + 49.8 \\ \hline 53.4 \end{array}$$

$$\begin{array}{r} \cancel{3.6} \\ \cancel{49.8} \\ \hline \end{array}$$



$$8. - 1.62$$

$$\begin{array}{r} 78.9010 \\ - 1.62 \\ \hline 6.38 \end{array}$$

$$23.8 + 3.115$$

$$\begin{array}{r} 23.800 \\ + 03.115 \\ \hline 26.915 \end{array}$$

Using the U.S. Traditional Algorithms with Decimals

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- 1** For each problem, write a number sentence for the estimate, and then solve. Compare the solution to the estimate to make sure the answer is reasonable.

a. $5.201 + 2.49$

Estimate: _____

Answer: _____

b. $66.59 + 9.177$

Estimate: _____

Answer: _____

- c.** Justin spent \$74.26 on most of his soccer gear for this season. He bought the rest at another store for \$7.88. How much did he spend in all?

Estimate: _____

Solution: _____

- d.** Sara was timed at 120.556 seconds with one lap to go in her swim race. Her time for the last lap was 46.767 seconds. What was her time for the entire race?

Estimate: _____

Solution: _____

- 2** For each problem, estimate and then subtract.

a. $8.635 - 2.431$

Estimate: _____

Answer: _____

b. $3.07 - 1.48$

Estimate: _____

Answer: _____

- c.** Jon's best time in the 100-meter dash was 17.1 seconds. He improved his time by 2.855 seconds. What is his new best time?

Estimate: _____

Solution: _____

- d.** Karla borrowed \$96.25 from her sister to buy a new bicycle. She has paid back \$68.73. How much does Karla still owe her sister?

Estimate: _____

Solution: _____

P 118-120
Spiral

Downloading with Decimals

Lesson 3-3



DATE

TIME

- 1 Itzel has had her electronic tablet for a year and has downloaded many songs, videos, and games. She has a list of new files she wants to download, but her tablet has only 200.3 MB (megabytes) of space left.

Here are the files Itzel wants to download and the amount of memory each file requires.

Title	Type	Size
"More Than Half"	Song	6.92 MB
"Change in My Pocket"	Song	5.6 MB
"The Minute Found"	Song	4.75 MB
"Wish to Listen"	Song	4.8 MB
"Draw Cartoons"	Video	136.4 MB
"Tennis Drills"	Video	119.28 MB
<i>Kids News Episode 10</i>	Video	72.62 MB
"Fastest Animals"	Video	87.9 MB
<i>Ice Cream Melt</i>	Game	42.67 MB
<i>Bee Hive</i>	Game	28.91 MB
<i>Balloons and Rainbow</i>	Game	56.7 MB
<i>Style Junior</i>	Game	34.06 MB

- a. What combination of files can Itzel download and still have storage space left over? Explain.

- b. What combination of files can Itzel download that would come closest to filling up all of her tablet's available space?

- c. If Itzel wants to download at least one file from each category (songs, videos, and games), what can she download so she has at least 50 MB of space left?



1 Divide.

a. $525 \div 15 =$ _____

b. $43 \overline{)6,274}$

SRB
149-150

2 A boat traveled 128 kilometers in 4 hours. At this rate, how far did the boat travel in 2 hours and 15 minutes? Use a ratio/rate table to solve the problem.

Distance (km)					
Time (hr)					

Solution: _____

SRB
46-44

3 Find the least common multiple.

a. LCM (15, 25) = _____

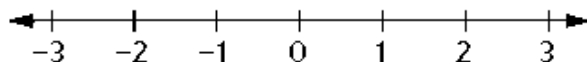
b. LCM (49, 70) = _____

c. LCM (10, 15, 20) = _____

SRB
106

4 Plot and label these numbers on the number line below:

A: $\frac{1}{2}$ B: -2.5 C: $2\frac{1}{2}$ D: -0.5



SRB
94

5 **Writing/Reasoning** Explain how you used the ratio/rate table to help you solve Problem 2.