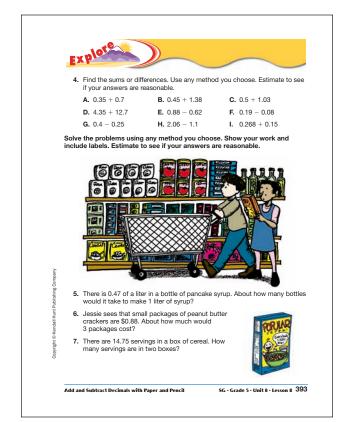


#### Student Guide - Page 392



#### Student Guide - Page 393

\*Answers and/or discussion are included in the lesson.

#### **Student Guide**

# Add and Subtract Decimals with Paper and Pencil (SG pp. 392–394) Questions 1–18

- **I.\*** The like place values are not aligned correctly. It should be:
  - 51.070 <u>+ 6.394</u>

Solution strategies will vary. Using expanded form:

$$51.070 = 50 + 1 + .0 + .07$$
  
+ 6.394 = 6 + .3 + .09 + .004  
50 + 7 + .3 + .16 + .004 = 57.464

See Figure 2 in the lesson for more paper and pencil strategies.

**2.**\* Solution strategies will vary. Using compact method:

$$0.48\%$$
 $-0.369$ 
0.118

See Figure 3 in the lesson for more paper and pencil strategies.

- **3. A.** 250 + 250
  - **B.** 2.50 + 2.50
  - **C.** 0.25+ 0.25 or .250 + .250
  - **D.** 25.0 + 25.0
  - **E.** .025 + .025
  - **F.** 2.50 + 0.25
- **4. A.** 1.05
  - **B.** 1.83
  - **C.** 1.53
  - **D.** 17.05
  - **E.** 0.26
  - **F.** 0.11
  - **G.** 0.15
  - **H.** 0.96
  - **I.** 0.418
- **5.** About 2 bottles; .47 is about 0.5 and .5 + .5 = 1, so two bottles.
- **6.** Estimates will vary. Possible response: about \$2.70; 0.88 is about 0.90 and 0.90  $\times$  3 = 2.70
- **7.** 29.5 servings; 14 + 14 = 28; .75 + .75 = 1.50; 28 + 1.50 = 29.5

# Answer Key • Lesson 8: Add and Subtract Decimals with Paper and Pencil

- **8.** Estimates will vary. Possible response: about 75 servings
- 9. 55.2 grams
- **10.** 327.5 grams
- **II.** 60.5 grams
- **12.** 846.5 grams
- **I3.** \$1.80
- **14.** \$1.40
- **15.** \$4.92
- 16. 706.18 grams
- **17.** 15.01 grams
- 18.\* Responses will vary. Possible response: Line up the numbers so that the decimal points are underneath each other. Then like place values will be aligned. You add or subtract all the digits in like places. For example, you add tenths to tenths, or subtract hundredths from hundredths. You place the decimal point underneath the numbers you added or subtracted, keeping it aligned with the decimal points in the problem.

-		9.	One serving of tortilla chips is 27.6 grams. How many grams are in two servings?			
A A		10.	A bag of tortilla chips has a total of 382.7 grams. How many grams will be left after the two servings from Question 9 are eaten?			
		11.	A portion of whole-wheat flour contains 30.25 grams. A recipe calls for 2 portions. How many grams are in two portions?			
12.	A small bag of whole-wheat flour contains 907 grams. How much is left after the two portions from Question 11 are used?					
13.	. Grace bought a notebook for \$1.25 and a pencil for \$0.55. How much money did she spend?					
14.	. Tanya wants to buy a \$5.00 binder for her notes. She has \$3.60. How much more money does she need?					
15.	Jackie and Jessie put their money together to buy some snacks. They had \$9.57 altogether. If Jackie gave \$4.65, how much money did Jessie give?					
16.	There are 353.09 grams of soda in a can. How much soda will Roberto drink if he drinks two cans of soda this week?					
17.	A full can of soda has a mass of 368.1 grams. If there are 353.09 grams of soda in the can, how much does the empty aluminum can weigh?					
18.	Think of a method for adding or s use with any two numbers. Expla		cting decimal numbers that you can r method to a partner.			

Student Guide - Page 394

\*Answers and/or discussion are included in the lesson.

1. Estimate to tell if each answe	r is reasonable. Expl	ain your reasoning.
<b>A.</b> $0.8 + 0.7 = .15$	<b>B.</b> 12.8	8 + 6.7 = 73.8
<b>C.</b> $15.20 + 2.50 = 17.007$	<b>D.</b> 3.70	06 - 1.597 = .2289
<b>E.</b> $0.6 + 0.06 = 0.12$	<b>F.</b> 1.78	899 = .79
<b>G.</b> $0.07 + 0.004 = 0.074$	<b>H.</b> 0.01	+ 0.10 = 0.0110
2. Solve the problems. Estimate	to see if your answe	ers are reasonable.
<b>A.</b> 0.12 + 2.33	<b>B.</b> 1	.49 .08
<b>C.</b> 3.1 + 0.13	<b>D.</b> 1.05	5 + .50
<b>E.</b> 0.379 + 0.347	<b>F.</b> 80.2	23 - 22.58
<b>G.</b> 13.89 - 5.53	<b>H.</b> 1.7	+ 8.62
I. 0.9 - 0.64	<b>J.</b> 1.3	+ 0.678
<b>K.</b> 42.34 + 87.9	L. 1.03	8 - 0.99
3. Use <, >, or = to make the nu	imber sentences tru	e.
A. 0.2 + 2.2 2.2 + .002	1	
<b>B.</b> 0.25 + 0.25 0.025 +	2	
<b>C.</b> 0.025 + 0.025 .0250	+ .0250	
<b>D.</b> 2.25 + .025 2.25 + .	200	
<b>E.</b> 0.025 + 0.10 0.2 +	0.1	
Add and Subtract Decimals with Paper and		Grade 5 • Unit 8 • Lesso

Student Guide - Page 395

# Homework (SG p. 395) Questions 1–3

- I. A. reasonable
  - **B.** unreasonable; 12 wholes + 6 wholes is 18 wholes, not 73.
  - **C.** unreasonable; two-tenths and five-tenths is 0.7 not .007
  - **D.** unreasonable; the difference should be about 2, not .2.
  - **E.** unreasonable; 0.6 + 0.6 = 0.12, but only 0.06 was added, so the sum should be less or a little more than 0.6.
  - **F.** reasonable
  - G. reasonable
  - **H.** unreasonable; If I just look at the tenths, the sum should be at least one-tenth.

2.	<b>A.</b> 2.45	Β.	0.41
	<b>C.</b> 3.23	D.	1.55
	<b>E.</b> 0.726	F.	57.65
	<b>G.</b> 8.36	Н.	10.32
	<b>I.</b> 0.26	J.	1.978
	<b>K.</b> 130.24	L.	0.04
3.	<b>A.</b> $0.2 + 2.2 > 2.2$	+ .00	2

- **B.** 0.25 + 0.25 < 0.025 + 2
- **C.** 0.025 + 0.025 = .0250 + .0250
- **D.** 2.25 + .025 < 2.25 + .200

**E.** 
$$0.025 + 0.10 < 0.2 + 0.1$$

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