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	Explore		
	4. Find the sums or dif	ferences. Use any methoo reasonable.	I you choose. Estimate to see
	A. 0.35 + 0.7	B. 0.45 + 1.38	C. 0.5 + 1.03
	D. 4.35 + 12.7	E. 0.88 - 0.62	F. 0.19 - 0.08
	G. 0.4 - 0.25	H. 2.06 - 1.1	I. 0.268 + 0.15
	PPP		
	6666	9	
	0000	00000	
			The Francisco States
	Caread Plante		
any	1	100000 · 1	
g Comp			
Publishin	 There is 0.47 of a lit would it take to make 	er in a bottle of pancake s ke 1 liter of syrup?	yrup. About how many bottle
Kendall Hunt	 Jessie sees that sm crackers are \$0.88. 3 packages cost? 	all packages of peanut bu About how much would	tter
pyright ©	 There are 14.75 sen many servings are in 	vings in a box of cereal. He n two boxes?	w

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

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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?
and the		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?
2.	A small bag of whole-wheat flour after the two portions from Quest	conta ion 11	ins 907 grams. How much is left are used?
3.	Grace bought a notebook for \$1.25 and a pencil for \$0.55. How much money did she spend?		
4.	Tanya wants to buy a \$5.00 binder for her notes. She has \$3.60. How much more money does she need?		
5.	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?		
6.	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?		
7.	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?		
8.	Think of a method for adding or s use with any two numbers. Expla	ubtra in you	cting decimal numbers that you can r method to a partner.

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

1. Estimate to tell if each answer	s reasonable. Explain your reas	oning.
A. 0.8 + 0.7 = .15	B. 12.8 + 6.7 = 73.	8
C. $15.20 + 2.50 = 17.007$	D. 3.706 - 1.597 =	.2289
E. $0.6 + 0.06 = 0.12$	F. 1.7899 = .79	
G. $0.07 + 0.004 = 0.074$	H. $0.01 + 0.10 = 0.$	0110
2. Solve the problems. Estimate t	see if your answers are reaso	nable.
A. 0.12 + 2.33	B. 1.49 - 1.08	
C 31 ± 0.13	D 1.05 ± 50	
E. 0.379 + 0.347	F. 80.23 - 22.58	
G. 13.89 - 5.53	H. 1.7 + 8.62	
I. 0.9 - 0.64	J. 1.3 + 0.678	
K. 42.34 + 87.9	L. 1.03 - 0.99	
3. Use <, >, or = to make the nur	ber sentences true.	
A. 0.2 + 2.2 () 2.2 + .002		
B. 0.25 + 0.25 () 0.025 + 3	!	
C. 0.025 + 0.025 () .0250	0250	
D. 2.25 + .025 () 2.25 + .2	00	
E. 0.025 + 0.10 0.2 + 0	1	
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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.	Α.	2.45	В.	0.41
	C.	3.23	D.	1.55
	E.	0.726	F.	57.65
	G.	8.36	Η.	10.32
	I.	0.26	J.	1.978
	K.	130.24	L.	0.04
3.	Α.	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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Answer Key • Lesson 8: Add and Subtract Decimals with Paper and Pencil

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3. Frank is incorrect. Possible response: If I just look at the tenths, 0.9 - 0.8 = 0.1, not 1.0.

more than 1 and .94 is .06 less than 1.

1.	Shannon and Roberto played the Ad	dd or Subtract to 1 Game.
	A. Shannon made this problem:	B. Roberto made this problem:
	.752 + .213	6.49 - 5.51
	Show how to find Shannon's sum:	Show how to find Roberto's difference:
	Number sentence	Number sentence
	C. Place both answers on the numb	per line below.
	Which number is closer to 1?	
	,	
	0.9	



Name	e Date	_
2.	Jessie and Mark played the game, too.	
	A. Jessie made this problem: B. Mark made this problem:	
	2.86 - 1.79 0.48 + 0.46	
	Show how to find Show how to find Mark's sum: Jessie's difference:	
	C. Represent Mark's answer using a hundredths grid, hundredths circle, or base-ten shorthand. The flat is the unit whole. Choose one way.	
	D. Which number is closer to 1, Jessie's or Mark's ? How do you know?	Copyright @ Kends
3.	Frank made this problem: .911 809	all Hunt Publishing O
	He estimated the difference to be about 1. Do you agree or disagree? Exple why.	ompany ain y
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