

Name \_\_\_\_\_ Date \_\_\_\_\_

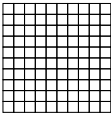
### Add Decimals with Grids and Number Lines

1. Irma is training for a bike race. Her coach wants her to ride at least one mile, but no more than two miles a day. She rides 0.4 of a mile to the park and then another 0.3 of a mile farther.

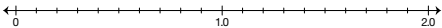
A. Shade 0.4 of the grid.

B. Shade another 0.3 of the grid.

C. How far does Irma ride? Does she meet her coach's requirements?



D. Solve  $0.7 + 0.7$  on the number line to find the number of miles in a round trip.

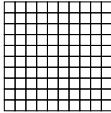


E. If she makes a round trip, will she meet her coach's requirements?

2. Linda walks 0.25 of a mile to the store and then 0.4 of a mile farther to her grandmother's house.

A. Does Linda walk more or less than  $\frac{1}{2}$  mile? More or less than 1 mile?

B. How far does she walk in all? Use the grid to add.



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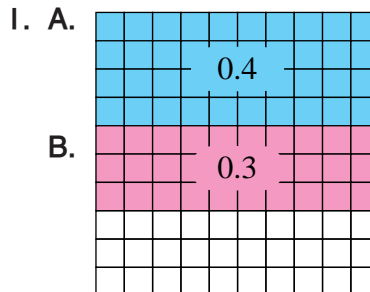
Strategies for Adding and Subtracting Decimals      SAB • Grade 5 • Unit 8 • Lesson 7    327

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**Student Activity Book**

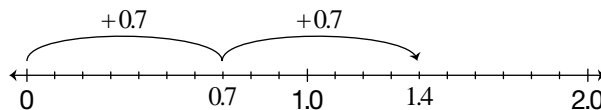
**Add Decimals with Grids and Number Lines (SAB pp. 327–329)**

**Questions 1–10**



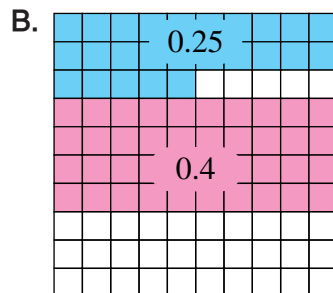
C.\* 07 miles; no she did not

D.\*



E.\* Yes, she biked 1.4 miles.

2. A. More than a  $\frac{1}{2}$  mile; less than 1 mile

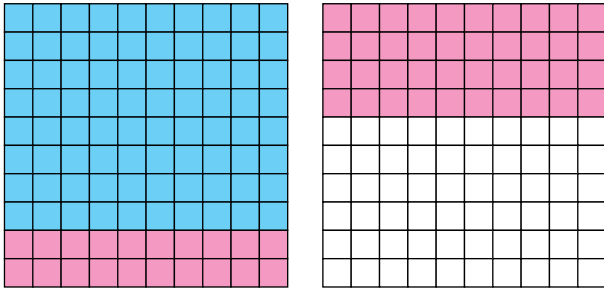


0.65 miles

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

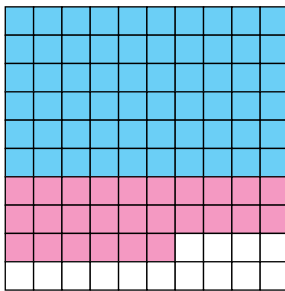
3. A.\* More than 1 mile

B.\* 1.4 miles



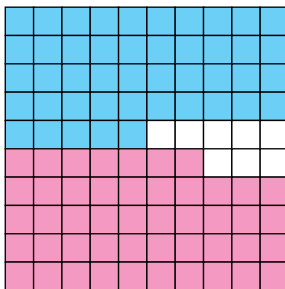
4.  $0.6 + 0.26 = 0.86$

Possible estimate: 0.8

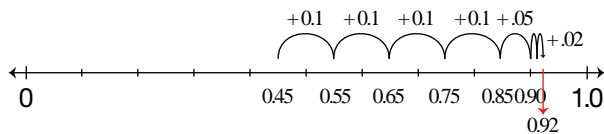


5.\*  $0.45 + 0.47 = 0.92$

Possible estimate: 0.9



6.\* Possible response:



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3. Roberto runs 0.8 of a mile to the ball field and then 0.6 of a mile around the field.

A. Does Roberto run more or less than one mile?

B. How far does he run in all? Use the grids to add.

Use these grids to help solve the following addition problems.

4.  $0.6 + 0.26 =$  \_\_\_\_\_      5.  $0.45 + 0.47 =$  \_\_\_\_\_

Estimate \_\_\_\_\_      Estimate \_\_\_\_\_

6. Show how to solve the problem from Question 5 on the number line.

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


# Answer Key • Lesson 7: Strategies for Adding and Subtracting Decimals

Name \_\_\_\_\_ Date \_\_\_\_\_


7.  $0.67 + 1.09 =$  \_\_\_\_\_ (Hint: Use both grids.)  
Estimate \_\_\_\_\_



8.  $0.3 + 0.87 =$  \_\_\_\_\_  
Estimate \_\_\_\_\_



9.  $1.47 + 0.03 =$  \_\_\_\_\_  
Estimate \_\_\_\_\_



10. Show or tell how to use your estimate to tell if your answer to Question 9 is reasonable.

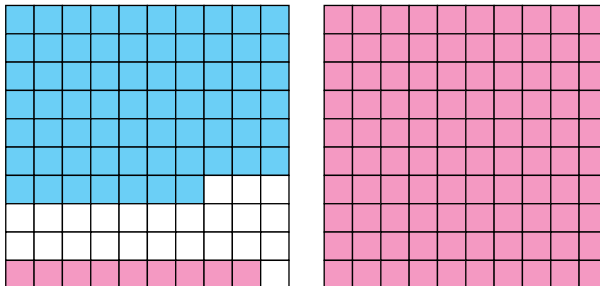
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Strategies for Adding and Subtracting Decimals SAB • Grade 5 • Unit 8 • Lesson 7 329

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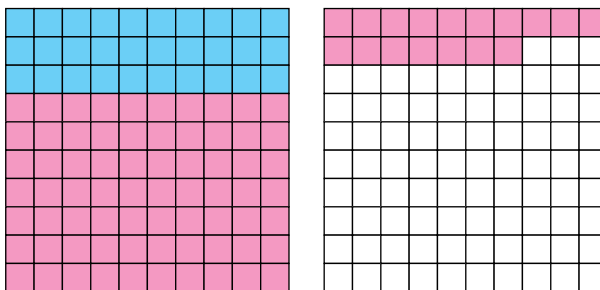
7.  $0.67 + 1.09 = 1.76$

Possible estimate: 1.70



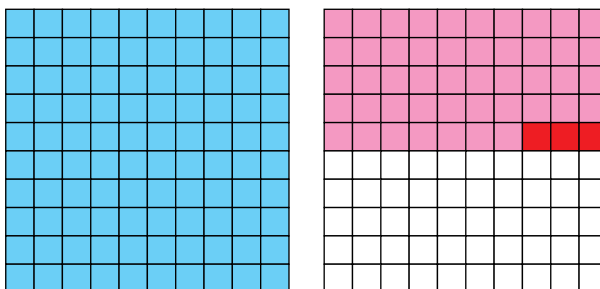
8.  $0.3 + 0.87 = 1.17$

Possible estimate: 1.20



9.  $1.47 + 0.03 = 1.50$

Possible estimate: 1.50



10. I knew the answer would be just a little bit more than 1.47, close to  $1\frac{1}{2}$  because .03 is very little.

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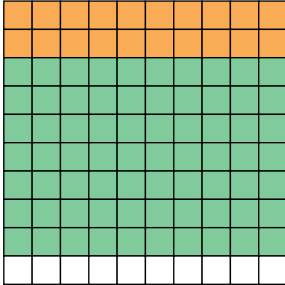
\*Answers and/or discussion are included in the lesson.

**Homework (SAB pp. 330–332)**

**Questions 1–12**

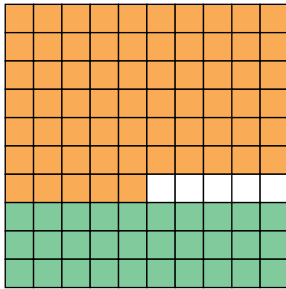
1.  $0.2 + 0.7 = 0.9$

Possible estimate: 1.0



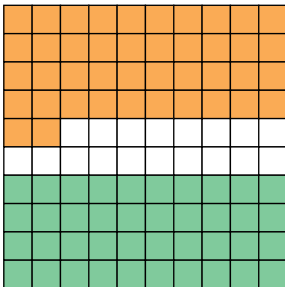
2.  $0.65 + 0.3 = 0.95$

Possible estimate: 1.0



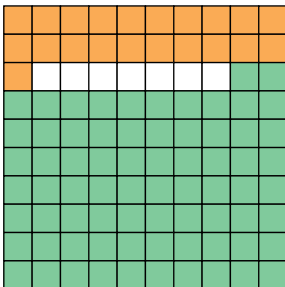
3.  $0.42 + 0.4 = 0.82$

Possible estimate: 0.8




4.  $0.21 + 0.72 = 0.93$

Possible estimate: 0.90



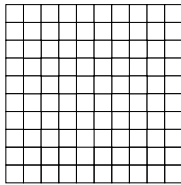
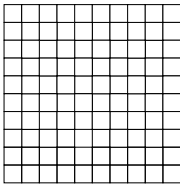
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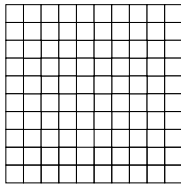
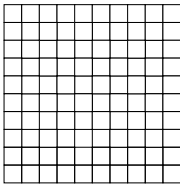


Use the models to represent and solve the addition problems.

1.  $0.2 + 0.7 =$  \_\_\_\_\_      2.  $0.65 + 0.3 =$  \_\_\_\_\_  
 Estimate \_\_\_\_\_      Estimate \_\_\_\_\_

3.  $0.42 + 0.4 =$  \_\_\_\_\_      4.  $0.21 + 0.72 =$  \_\_\_\_\_  
 Estimate \_\_\_\_\_      Estimate \_\_\_\_\_

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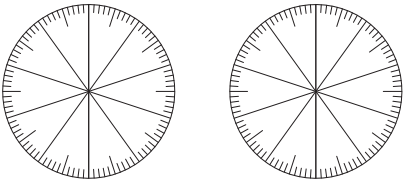
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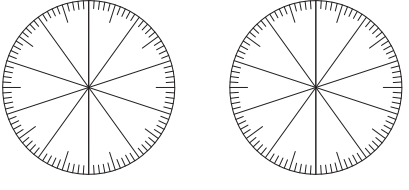
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Name \_\_\_\_\_ Date \_\_\_\_\_

5.  $0.7 + 0.16 =$  \_\_\_\_\_ 6.  $0.95 + 0.03 =$  \_\_\_\_\_  
 Estimate \_\_\_\_\_ Estimate \_\_\_\_\_



7.  $0.2 + 0.35 =$  \_\_\_\_\_ 8.  $0.1 + 0.09 =$  \_\_\_\_\_  
 Estimate \_\_\_\_\_ Estimate \_\_\_\_\_

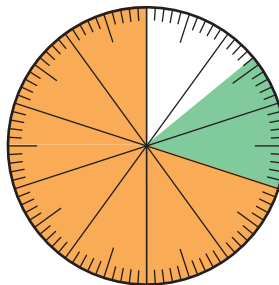


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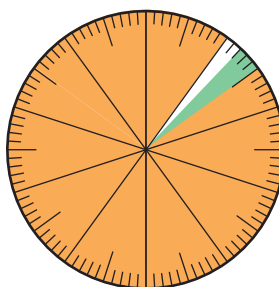
Strategies for Adding and Subtracting Decimals SAB • Grade 5 • Unit 8 • Lesson 7 331

**Student Activity Book - Page 331**

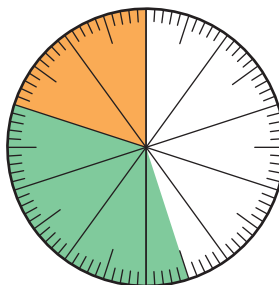
5.  $0.7 + 0.16 = 0.86$   
 Possible estimate: 0.8



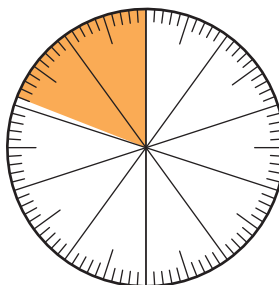
6.  $0.95 + 0.03 = 0.98$   
 Possible estimate: 1.0



7.  $0.2 + 0.35 = 0.55$   
 Possible estimate: 0.5



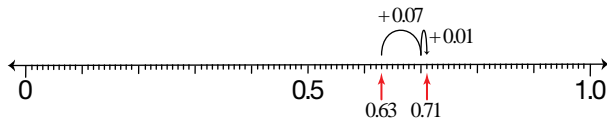
8.  $0.1 + 0.09 = 0.19$   
 Possible estimate: 0.1



# Answer Key • Lesson 7: Strategies for Adding and Subtracting Decimals

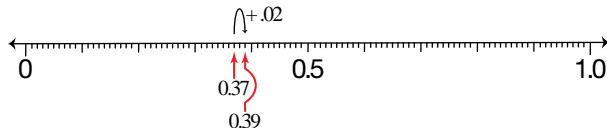
9.  $0.63 + 0.08 = 0.71$

Possible estimate: 0.7

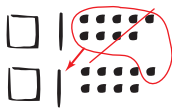


10.  $0.37 + 0.020 = 0.390$

Possible estimate: 0.4



11.  $1.19 + 1.09 = 2.28$



12. Possible response: It should be a little more than 2 because I had 2 flats.

Name \_\_\_\_\_ Date \_\_\_\_\_

9.  $0.63 + 0.08 =$  \_\_\_\_\_  
Estimate \_\_\_\_\_

10.  $0.37 + 0.020 =$  \_\_\_\_\_  
Estimate \_\_\_\_\_

11. Use base-ten shorthand to represent and solve  $1.19 + 1.09$ .

Number sentence \_\_\_\_\_

12. Explain how you know your answer to Question 11 is reasonable.

The flat (□) is the unit whole.

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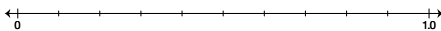
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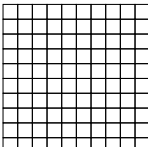
### Subtract Decimals with Grids and Number Lines

1. Lee Yah is building shelves. She has a board that is 0.85 m long. She cuts 0.2 m from the board.

A. Use the number line to estimate  $0.85 - 0.2$ .



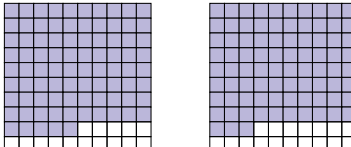
B. Use a pencil to lightly shade 0.85 of the grid.  
C. Erase 0.2 of the shaded part.



D. How long is the board after she cuts it?

2. Jason used a hundredths grid to solve  $0.85 - 0.2$ .

**He shaded 0.85.**                      **Then he erased some.**



Do you agree with Jason? Why or why not?

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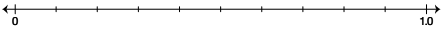
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Name \_\_\_\_\_ Date \_\_\_\_\_

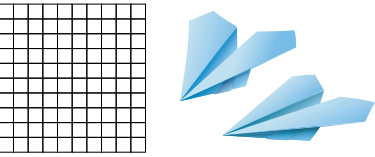
3. Chris and Romesh made paper airplanes and measured the distance they flew. Chris's airplane went 0.9 meter and Romesh's went 0.26 meter.

A. Whose plane went farther?

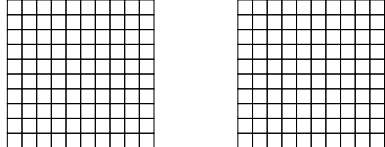
B. Use the number line to estimate about how much farther.



C. Use the grid to find out how much farther.



4. Jerome is 1.3 m tall. His little brother is 0.95 m tall. How much taller is Jerome? Use the grids to solve the problem.



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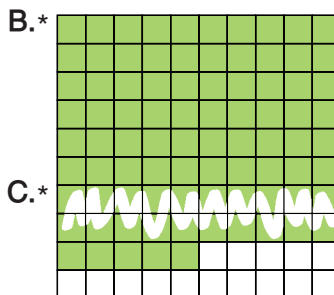
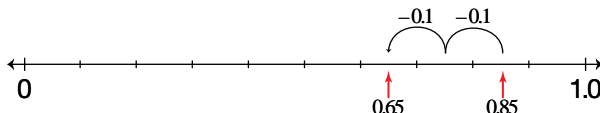
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\*Answers and/or discussion are included in the lesson.

**Subtract Decimals with Grids and Number Lines (SAB pp. 333–335)**  
**Questions 1–9**

1. A. Possible estimate: .60 or .65

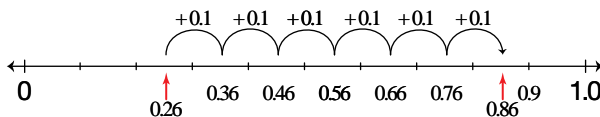


D. 0.65 meters

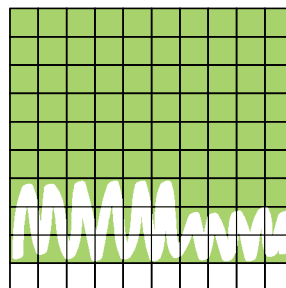
2.\* No. Jason erased 0.02 not 0.2.

3. A. Chris's plane

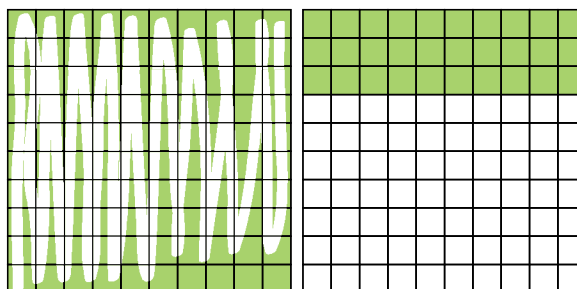
B. Possible estimate: 0.6 meter



C. 0.64 meters



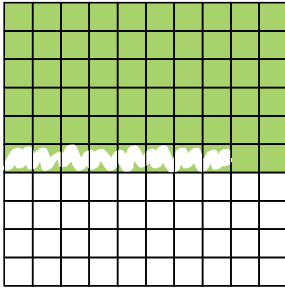
4. 0.35 meters



# Answer Key • Lesson 7: Strategies for Adding and Subtracting Decimals

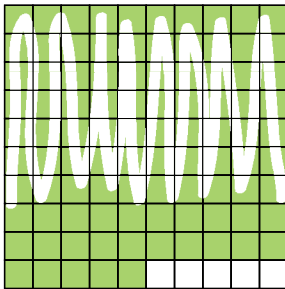
5.  $0.6 - 0.08 = 0.52$

Possible estimate: 0.6



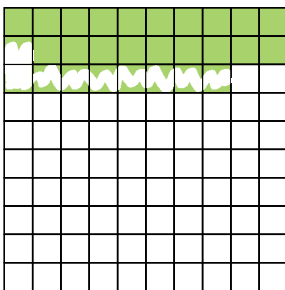
6.  $0.95 - 0.7 = 0.25$

Possible estimate: 0.2



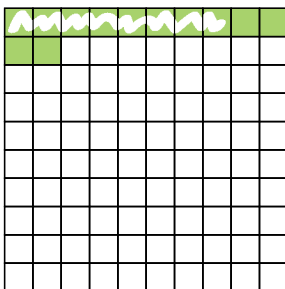
7.  $0.28 - 0.09 = 0.19$

Possible estimate: 0.1

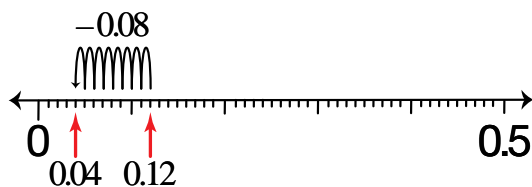


8.  $0.12 - 0.08 = 0.04$

Possible estimate: 0



9.



Name \_\_\_\_\_ Date \_\_\_\_\_

Use the grids to solve these subtraction problems.

5.  $0.6 - 0.08 =$  \_\_\_\_\_      6.  $0.95 - 0.7 =$  \_\_\_\_\_  
 Estimate \_\_\_\_\_      Estimate \_\_\_\_\_

7.  $0.28 - 0.09 =$  \_\_\_\_\_      8.  $0.12 - 0.08 =$  \_\_\_\_\_  
 Estimate \_\_\_\_\_      Estimate \_\_\_\_\_

9. Show how to solve Question 8 on the number line.

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**Homework**

Use the models to represent and solve the subtraction problems.

1.  $0.8 - 0.2 =$  \_\_\_\_\_      2.  $0.88 - 0.06 =$  \_\_\_\_\_  
 Estimate \_\_\_\_\_                  Estimate \_\_\_\_\_

3.  $0.74 - 0.34 =$  \_\_\_\_\_      4.  $0.19 - 0.09 =$  \_\_\_\_\_  
 Estimate \_\_\_\_\_                  Estimate \_\_\_\_\_

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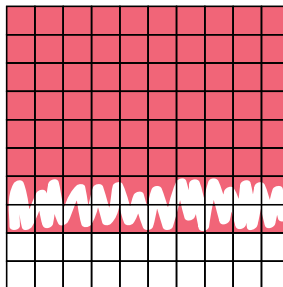
**Student Activity Book - Page 336**

**Homework (SAB pp. 336–338)**

**Questions 1–12**

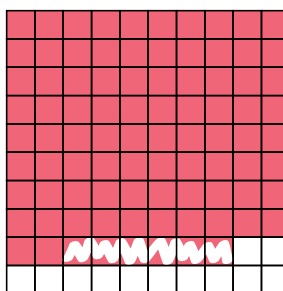
1.  $0.8 - 0.2 = 0.6$

Possible estimate: 0.6



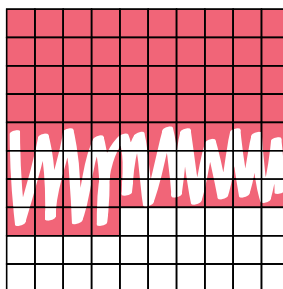
2.  $0.88 - 0.06 = 0.82$

Possible estimate: 0.80



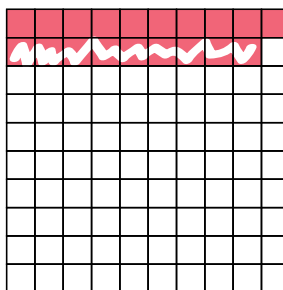
3.  $0.74 - 0.34 = 0.4$

Possible estimate: 0.4



4.  $0.19 - 0.09 = 0.1$

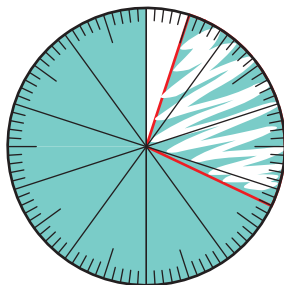
Possible estimate: 0.1



**Answer Key • Lesson 7: Strategies for Adding and Subtracting Decimals**

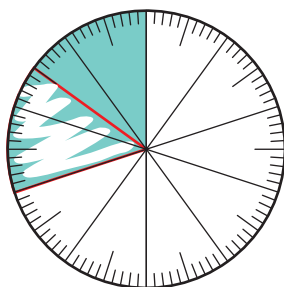
5.  $0.95 - 0.27 = 0.68$

Possible estimate: 0.75



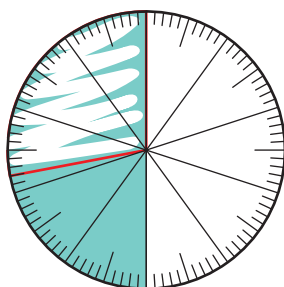
6.  $0.3 - 0.15 = 0.15$

Possible estimate: 0.20



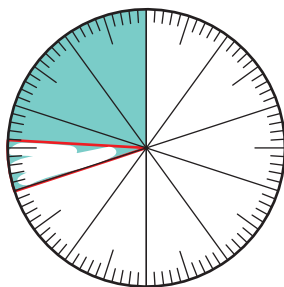
7.  $0.5 - 0.28 = 0.22$

Possible estimate: 0.25



8.  $0.3 - 0.06 = 0.24$

Possible estimate: 0.20



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5.  $0.95 - 0.27 =$  \_\_\_\_\_ 6.  $0.3 - 0.15 =$  \_\_\_\_\_  
 Estimate \_\_\_\_\_ Estimate \_\_\_\_\_

7.  $0.5 - 0.28 =$  \_\_\_\_\_ 8.  $0.3 - 0.06 =$  \_\_\_\_\_  
 Estimate \_\_\_\_\_ Estimate \_\_\_\_\_

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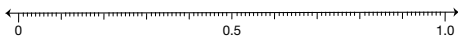
Strategies for Adding and Subtracting Decimals SAB • Grade 5 • Unit 8 • Lesson 7 337

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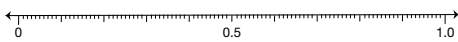
# Answer Key • Lesson 7: Strategies for Adding and Subtracting Decimals

Name \_\_\_\_\_ Date \_\_\_\_\_

9.  $0.85 - 0.5 =$  \_\_\_\_\_  
Estimate \_\_\_\_\_



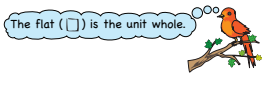
10.  $0.88 - 0.06 =$  \_\_\_\_\_  
Estimate \_\_\_\_\_



11. Use base-ten shorthand to represent and solve  $1.67 - 1.5$ .

Number sentence \_\_\_\_\_

12. Explain how you know your answer to Question 11 is reasonable.

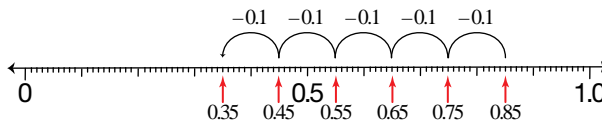


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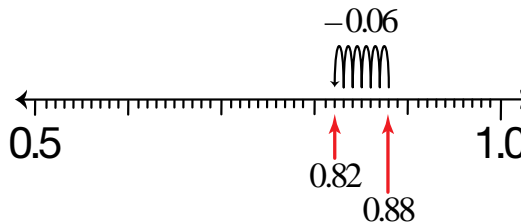
9.  $0.85 - 0.5 = 0.35$

Possible estimate: 0.3



10.  $0.88 - 0.06 = 0.82$

Possible estimate: 0.80



11.  $1.67 - 1.5 = .17$



12. Possible response: I thought about money.  $\$1.70 - \$1.50$  is  $\$0.20$ , and 0.17 is close.

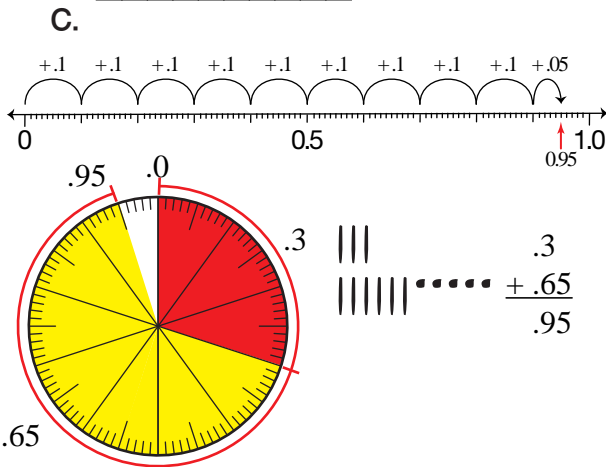
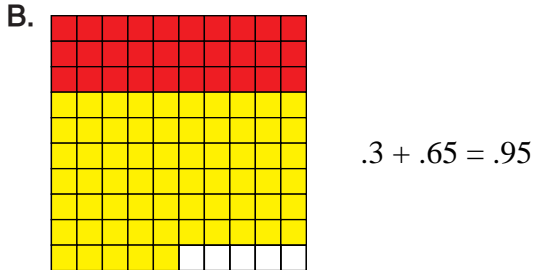
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**Teacher Guide**

**Add and Subtract Decimals with Models and Strategies (TG pp. 1–2)**

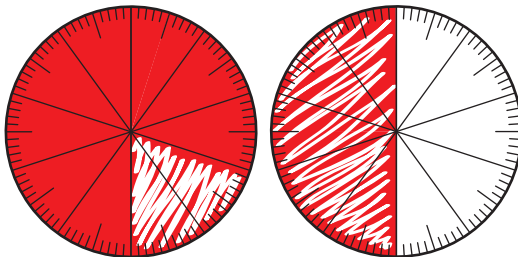
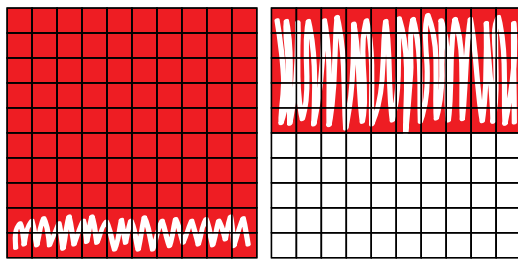
**Questions 1–2**

1. **A.** Less than a mile.  $0.6 + 0.3$  is  $.9$  That is less than 1 mile.



2. **A.** A little less than 1 mile  $1.5 - .5 = 1$

- B.**  $1.5 - .7 = .8$



- C.**  $.8$  is close to  $.5$  and less than my estimate of 1 mile.

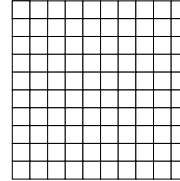
Name \_\_\_\_\_ Date \_\_\_\_\_

**Add and Subtract Decimals with Models and Strategies**

1. On Monday, Tanya ran 0.3 of a mile at school and 0.65 of a mile at soccer practice.

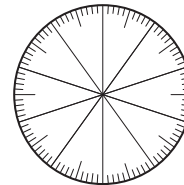
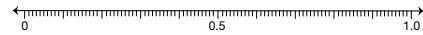
- A.** Did she run more or less than one mile? How do you know?

- B.** How far did Tanya run on Monday? Show how to use a hundredths grid to solve the problem.



Number sentence \_\_\_\_\_

- C.** Show how to solve the problem another way using base-ten shorthand, a number line, or the hundredths circle. Choose one way.



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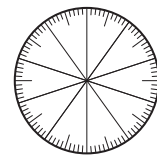
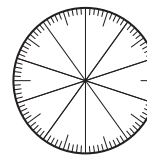
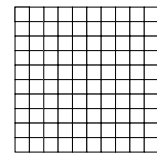
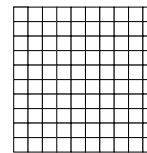
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Name \_\_\_\_\_ Date \_\_\_\_\_

2. Nila wants to run a total of 1.5 miles today. She ran 0.7 of a mile before breakfast. How many more miles does she need to run?

- A.** Explain how to estimate the difference.

- B.** Show how to use a hundredths grid, base-ten shorthand, or the hundredths circle to solve the problem. Choose one way.



Number sentence \_\_\_\_\_

- C.** How do you know your answer in Question 2B is reasonable?

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