

Student Activity Book

Snack Shop Bills (SAB pp. 375–378)

Questions 1–9

For Questions 1–6, estimation strategies will vary.

1. Total: \$1.44;
Estimate: $60¢ + 90¢ = 150¢$ or \$1.50
2. Total: \$2.03
Estimate: $100¢ + 25¢ + 75¢ = 200¢$ or \$2.00
3. Total: \$1.73
Estimate: $90¢ + 30¢ + 50¢ = 170¢$ or \$1.70
4. Bills will vary.
5. Bills will vary.
6. Bills will vary.

Name _____ Date _____

Snack Shop Bills

Estimate and calculate the total of each bill.

1. **Shooting Star Snack Shop** Customer's Name: _____
Diana

Item	Price (¢)
Taco	59¢
Large Orange Juice	85¢

Show how you estimated: _____ Is your total reasonable? _____

Total _____

2. **Shooting Star Snack Shop** Customer's Name: _____
Miguel

Item	Price (¢)
Turkey Sandwich	99¢
Potato Chips	25¢
Large Lemonade	79¢

Show how you estimated: _____ Is your total reasonable? _____

Total _____

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Name _____ Date _____

3. **Shooting Star Snack Shop** Customer's Name: _____
Kim

Item	Price (¢)
Grilled Cheese Sandwich	89¢
Carrot Sticks	29¢
Chicken Noodle Soup	55¢

Show how you estimated: _____ Is your total reasonable? _____

Total _____

4. **Shooting Star Snack Shop** Customer's Name: _____
You have up to \$3.00 to spend. Choose 2–3 items.

Item	Price (¢)

Show how you estimated: _____ Is your total reasonable? _____

Total _____

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Name _____ Date _____

5. **Shooting Star Snack Shop** Customer's Name: _____
You have up to \$2.00 to spend. Choose 2–3 items.

Item	Price (¢)

Show how you estimated: _____ Is your total reasonable? _____

Total _____

6. **Shooting Star Snack Shop** Customer's Name: _____
You have up to \$3.50 to spend. Choose 2–3 items.

Item	Price (¢)

Show how you estimated: _____ Is your total reasonable? _____

Total _____

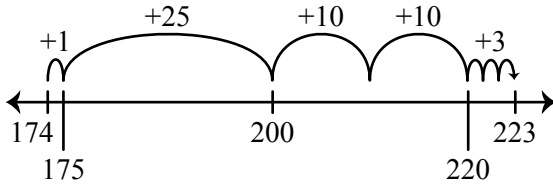
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- 7. \$0.29
- 8. \$0.49
- 9. Possible strategy: I added $75¢ + 59¢ + 40¢$.
 $60 + 40 = 100$, $100 + 75 = 175$ and
 minus $1¢ = 174¢$. I then counted on using a
 number line.



$174¢ + 49¢ = 223¢$ or \$2.23

Name _____ Date _____

Oops, I Spilled the Juice

Gus and Nick bought lunch at the Shooting Star Snack Shop. Gus spilled juice on their bills. The prices of the daily specials, applesauce and banana bread, were blotted out.

Use any strategies or tools to find the prices.

Shooting Star Snack Shop Bill	
Customer's Name	Gus
Item	Price (¢)
Fruit Salad Cup	65¢
Pretzels	25¢
Applesauce	
Large Orange Juice	85¢
Total \$2.04	

Shooting Star Snack Shop Bill	
Customer's Name	Nick
Item	Price (¢)
Chili	75¢
Taco	59¢
Banana Bread	
Small Milk	40¢
Total \$2.23	

- 7. How much did the applesauce cost? _____
- 8. How much did the banana bread cost? _____
- 9. Show or tell how you found the cost of the banana bread.

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Name _____ Date _____

Many Ways to Solve a Problem

Show how to solve the problem two different ways: using a mental math strategy and a paper-and-pencil method. Use the *Addition Strategies Menu* in the *Student Activity Book Reference* section.

67
+ 55

1. Estimate:

2. First Way:

3. Second Way:

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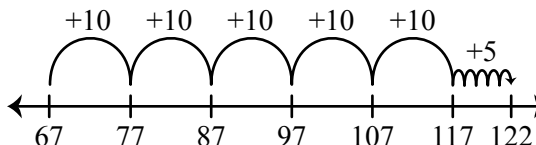
**Many Ways to Solve a Problem
(SAB pp. 379–380)
Questions 1–4**

Solution strategies will vary. $67 + 55 = 122$.

1. Possible Strategies: Estimate: $70 + 60 = 130$
2. Using expanded form:

$$\begin{array}{r} 67 = 60 + 7 \\ + 55 = 50 + 5 \\ \hline 110 + 12 = 122 \end{array}$$

3. Counting on a number line.



4. The sum is reasonable. It's close to my estimate of 130.

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Name _____ Date _____

4. Is your answer reasonable? How do you know?

Many Ways to Solve a Problem Feedback Box	Expect- ation	Check In	Comments
Add two-digit numbers using mental math strategies (e.g., composing and decomposing numbers, counting on) using the 200 Chart, base-ten pieces, and number lines. [Q# 2–3]	E3		
Add two-digit numbers using paper-and-pencil methods (e.g., expanded form, all-partials, compact). [Q# 2–3]	E4		
Estimate sums using mental math strategies (e.g., rounding using benchmarks, using friendly numbers, composing and decomposing numbers, counting on). [Q# 1]	E6		

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	Yes ...	Yes, but ...	No, but ...	No ...
MPE2. Find a strategy. I choose good tools and an efficient strategy for solving the problem. [Q# 1–3]				
MPE3. Check for reasonableness. I look back at my solution to see if my answer makes sense. If it does not, I try again. [Q# 4]				
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking. [Q# 1–4]				

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Teacher Guide

Snack Shop Carryout (TG pp. 1–2)


Homework

Questions 1–3

1. Bills will vary.
2. $89¢ + 25¢$ is about $90 + 20 + 5 = 115¢$;
 $89¢ + 25¢ = 114¢$ or \$1.14.
3. $79¢ + 29¢ + 55¢$ is about $80¢ + 30¢ + 50¢$
or $160¢$; $79¢ + 29¢ + 55¢ = 163¢$ or \$1.63

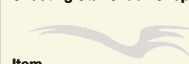

Name _____ Date _____

Snack Shop Carryout



Using the *Shooting Star Snack Shop Children's Menu* from the *Student Activity Book*, choose 2–3 items and make up your own problem on the bill below. Show how you estimated and found your answer.

1. A.

Shooting Star Snack Shop		Customer's Name: Diana _____
		
Item	Price (¢)	
_____	_____	
_____	_____	
Show how you estimated:		Is your total reasonable?
Total _____		_____

B. Show or tell how you found the sum.



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Name _____ Date _____

2.

Shooting Star Snack Shop		Customer's Name: Levi _____
		
Item	Price (¢)	
Grilled Cheese Sandwich	_____	
Potato Chips	_____	
Show how you estimated:		Is your total reasonable?
Total _____		_____

3.

Shooting Star Snack Shop		Customer's Name: Nisha _____
		
Item	Price (¢)	
Pizza Slice	_____	
Carrot Sticks	_____	
Small Lemonade	_____	
Show how you estimated:		Is your total reasonable?
Total _____		_____

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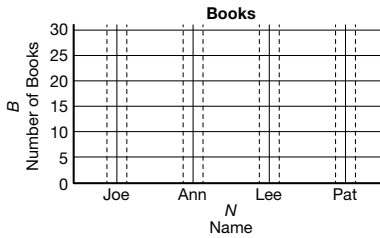
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Midyear Test

Part 1 You will need a 200 Chart and the *Addition Strategies Menu* in the *Student Activity Book Reference* section.

- Make a bar graph of the number of books.

Books	
N Name	B Number of Books
Joe	23
Ann	15
Lee	11
Pat	5



- How many more books does Ann have than Pat?

Number sentence _____

- How many more books does Ann have than Lee?

Number sentence _____

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Assessment Master

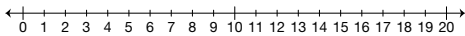
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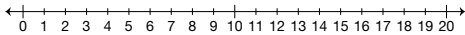
Show or tell how you solved the problem and write a number sentence. Remember to use labels.

- Levi had 8 buttons. Diana gave him some more buttons. Now he has 15 buttons. How many buttons did Diana give him?



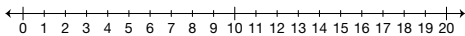
Number sentence _____

- Sara had some tiles on her desk. Kim gave her 7 more tiles. Now she has 12 tiles. How many tiles did Sara have at the beginning?



Number sentence _____

- Johnny has 12 coins. Nine of his coins are pennies and the rest are nickels. How many nickels does Johnny have?



Number sentence _____

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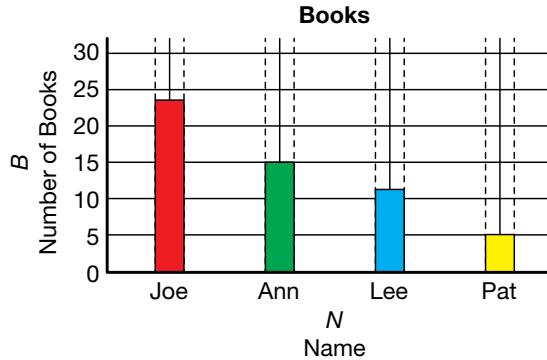
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**Midyear Test (TG pp. 1–9)
Questions 1–25**

- Look to see that 23 is somewhere between 20 and 25. The bar for 11 books should be closer to 10 than 15. Approximations are sufficient.



- 10 books; $15 - 5 = 10$
- 4 books; $15 - 11 = 4$

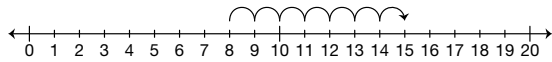
For questions 4–6, strategies will vary. Possible strategies are shown.

- 7 buttons; Possible strategy: I started at 8 and counted up to 15 on the number line.

Number sentence:

$$8 \text{ buttons} + \boxed{7} \text{ buttons} = 15 \text{ buttons or}$$

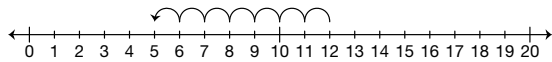
$$15 \text{ buttons} - 8 \text{ buttons} = \boxed{7} \text{ buttons}$$



- 5 tiles; Possible strategy: I started at 12 on the number line and counted back 7. She had 5 tiles at the beginning.

Number sentence: $\boxed{5}$ tiles + 7 tiles = 12 tiles

or $12 \text{ tiles} - 7 \text{ tiles} = \boxed{5} \text{ tiles}$



- 3 nickels; Possible strategy: I started at 9 and counted up 3 times to 12. My answer is 3 nickels.

Number sentence:

$$9 \text{ pennies} + \boxed{3} \text{ nickels} = 12 \text{ coins or}$$

$$12 \text{ coins} - 9 \text{ pennies} = \boxed{3} \text{ nickels}$$

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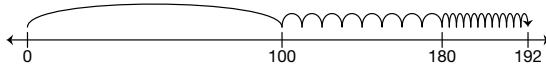
7. Possible responses:

	Number	Base-Ten Shorthand	Number Sentence
A.	216		$200 + 10 + 6 = 216$
B.	321		$300 + 20 + 1 = 321$
C.	46		$40 + 6 = 46$
D.	153		$100 + 50 + 3 = 153$

E. 46, 153, 216, 321

8. A. 96
 B. 135
 C. 96
 D. 52

9. Possible response:



Number sentence: $100 + 80 + 12 = 192$

10. Strategies will vary. Possible mental math strategies are shown below:

One way: I used doubles. I know that $6 + 6 = 12$, so $6 + 7 = 13$.

Another way: I used the make ten strategy. The partner number for 7 to make ten is 3. I split 6 into $3 + 3$. $7 + 3 + 3 = 10 + 3$. $10 + 3 = 13$.

11. Strategies will vary. Possible strategies are shown below:

Mental Math Strategy

$$\begin{array}{r} 48 \\ + 36 \\ \hline 84 \end{array}$$

Pencil-and-Paper Method

$$\begin{array}{r} 48 \\ + 36 \\ \hline 70 \\ \underline{14} \\ 84 \end{array}$$

12. A. >
 B. =
 C. <
 D. =

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Name _____ Date _____

7. Show each number using base-ten shorthand and a number sentence.

	Number	Base-Ten Shorthand	Number Sentence
A.	216		
B.	321		
C.	46		
D.	153		

E. Write the numbers above in order from smallest to largest.

8. Use the 200 Chart answer the questions.

A. What number is 10 more than 86? _____

B. What number is 10 less than 145? _____

C. What number is 14 more than 82? _____

D. What number is 22 less than 74? _____

9. A base-ten hopper made one hop of 100, 8 hops of 10, and 12 hops of 1. Use the number line to show where he landed and write a number sentence.

Number sentence _____

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Name _____ Date _____

10. Show or tell how to use a mental math strategy to solve $6 + 7 = \square$ two different ways.

One Way:

Another Way:

11. Show how to solve $48 + 36$ two different ways: using a mental math strategy a paper-and-pencil method.

Mental Math Strategy Paper-and-Pencil Method

12. Compare these quantities. Use >, <, or =.

A. $6 + 7$ ○ $12 - 2$

B. $11 - 4$ ○ $4 + 3$

C. $9 + 3$ ○ $8 + 6$

D. $14 - 8$ ○ $12 - 6$

> greater than
 < less than
 = equal to

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Name _____ Date _____

Part 2 You will need a centimeter and inch ruler, a 200 Chart, and the Addition Strategies Menu in the Student Activity Book Reference section.

13. List the number sentences in the fact family for 3, 5, and 8.

14. Is it true or false? Circle true or false for each problem.

A. $415 = 100 + 40 + 5$ True False

B. $126 = 12 \text{ tens and } 6 \text{ ones}$ True False

C. $213 = 21 + 3$ True False

D. $164 = 1 \text{ hundred and } 64 \text{ tens}$ True False

15. A. Circle all the clocks that show 3:30 PM.

B. What could you be doing at 3:30 PM?

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Name _____ Date _____

16. What is the value of each set of coins? Include labels.

A. _____

B. _____

C. _____

17. Show how to use a number line to solve $24 + 18$. Write a number sentence.

Number sentence _____

18. Complete the chart.

Number	Hundreds	Tens	Ones	Number Sentence
145				
216				
307				

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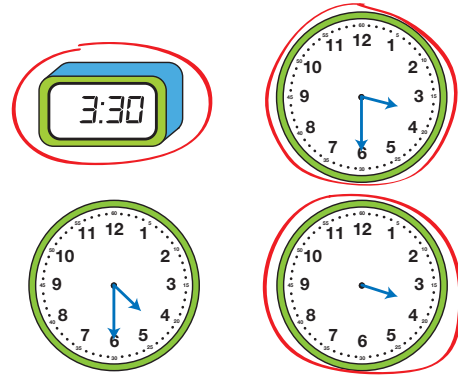
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13. A. $3 + 5 = 8$
 B. $5 + 3 = 8$
 C. $8 - 3 = 5$
 D. $8 - 5 = 3$

14. A. False
 B. True
 C. False
 D. False

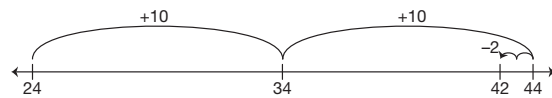
15. A.



- B. Responses will vary. Possible response: I could be getting out of school and walking home.

16. A. 40¢
 B. 44¢
 C. 28¢

17. Responses may vary. Possible response:



Number sentence $24 + 18 = 42$

- 18.

Number	Hundreds	Tens	Ones	Number Sentence
145	1	4	5	$100 + 40 + 5 = 145$
216	2	1	6	$200 + 10 + 6 = 216$
307	3	0	7	$300 + 7 = 307$

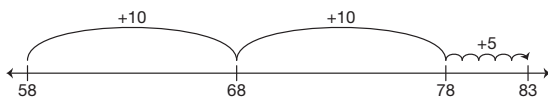
19. 10 centimeters
4 inches
20. 5 inches or 13 centimeters; Answers will vary.
Possible response: I know that inches are larger than centimeters, so the answer should be more centimeters than inches.
21. A. <
B. >
C. >
22. A. True
B. False
C. False
23. Responses will vary. Possible response using paper-and-pencil:

	<u>Estimate</u>
49	50
+ 23	+ 20
12	70
<u>60</u>	
72	

Using mental math: I thought of money. 49 is close to 2 quarters and 23 is close to 1 quarter. 3 quarters is 75 cents. Then I took away 3 cents. $75 - 3 = 72$.

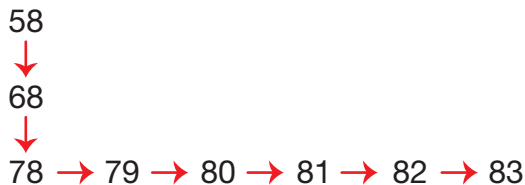
24. Responses may vary. Possible responses are shown.

Number Line:



I started at 58 and made two hops of 10 and 5 hops of 1. I landed at 83.


200 Chart:



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19. Use your ruler to measure the length of the pencil in centimeters and inches. Remember to label your measurements.



Measurement _____
Measurement _____

20. Peter measured the length of a marker. He measured it in both centimeters and inches. Circle the measurements that you think are reasonable.

5 inches or 13 centimeters 5 centimeters or 13 inches

Show or tell how you decided.


21. Compare these quantities. Use >, <, or =.

A. 100 cm 100 inches

B. 5 meter 5 inches

C. 1 meter 5 cm

> greater than
< less than
= equal to



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Name _____ Date _____

22. Circle true or false for each number sentence.

A. $20 + 10 + 5 = 10 + 10 + 10 + 5$ True False

B. $20 + 20 + 5 = 10 + 10 + 10 + 5$ True False

C. $10 + 10 + 10 + 10 + 4 = 20 + 4$ True False

23. Solve the problem using a mental math strategy or paper-and-pencil method. Estimate to check if your answer is reasonable.

Estimate

49
+ 23

24. Show or tell how to solve $58 + 25$. Use the number line or explain how you would solve it on the 200 Chart.

Number Line:

200 Chart:

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Name _____ Date _____

25. Moe solved the addition problem below.
 Moe's Solution:

$$\begin{array}{r} 76 \\ + 19 \\ \hline 815 \end{array}$$

Estimate the sum and show or tell if Moe's answer is reasonable.

Use a mental math strategy or paper-and-pencil method to solve the problem.
 My Solution:

$$\begin{array}{r} 76 \\ + 19 \\ \hline \end{array}$$

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25. No. I estimated by using friendly numbers. I changed 19 to 20 and added $76 + 20 = 96$. Moe's answer is 815 and that's too far from 96.

Strategies will vary. Possible strategy using paper and pencil:

$$\begin{array}{r} 76 = 70 + 6 \\ + 19 = 10 + 9 \\ \hline 80 + 15 = 95 \end{array}$$

Possible strategy using mental math: 19 is one less than 20. 76 plus 2 tens is 96. Then I took one away to get 95.