

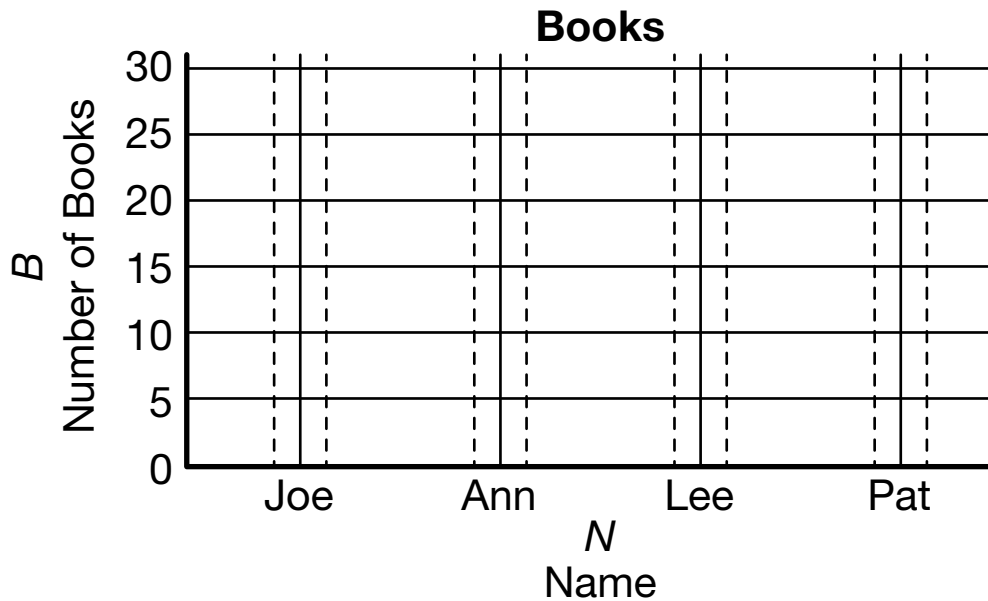
# Midyear Test

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

1. Make a bar graph of the number of books.

**Books**

<i>N</i> Name	<i>B</i> Number of Books
Joe	23
Ann	15
Lee	11
Pat	5



2. How many more books does Ann have than Pat?

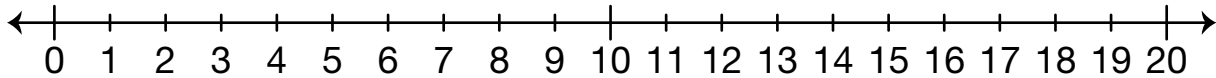
Number sentence \_\_\_\_\_

3. How many more books does Ann have than Lee?

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

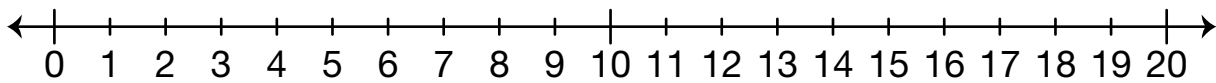
**Show or tell how you solved the problem and write a number sentence. Remember to use labels.**

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



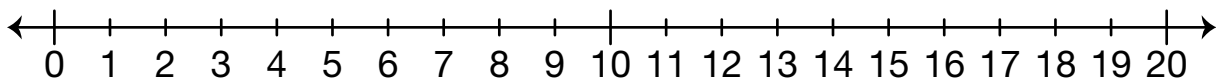
Number sentence \_\_\_\_\_

5. 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 \_\_\_\_\_

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



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

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.

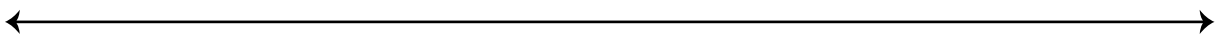
A. What number is 10 more than 86? \_\_\_\_\_

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 \_\_\_\_\_

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 and a paper-and-pencil method.

Mental Math Strategy

Paper-and-Pencil Method

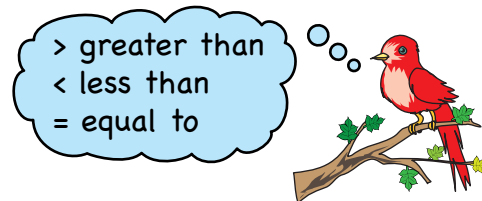
12. Compare these quantities. Use  $>$ ,  $<$ , or  $=$ .

A.  $6 + 7 \bigcirc 12 - 2$

B.  $11 - 4 \bigcirc 4 + 3$

C.  $9 + 3 \bigcirc 8 + 6$

D.  $14 - 8 \bigcirc 12 - 6$



**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.

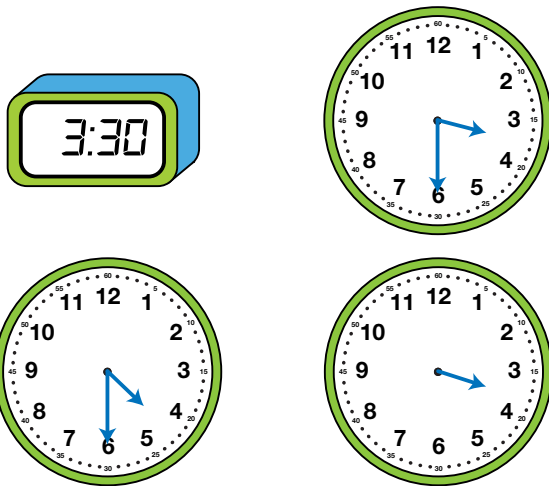
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14. Is it true or false? Circle true or false for each problem.

- |   |      |       |
|---|------|-------|
| 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?

\_\_\_\_\_

\_\_\_\_\_

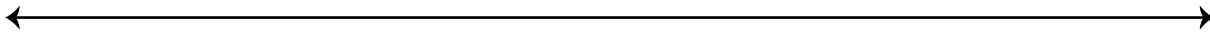
16. What is the value of each set of coins? Include labels.

A.  \_\_\_\_\_

B.  \_\_\_\_\_

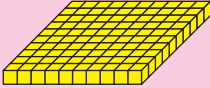


C.  \_\_\_\_\_

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				

- 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.

\_\_\_\_\_

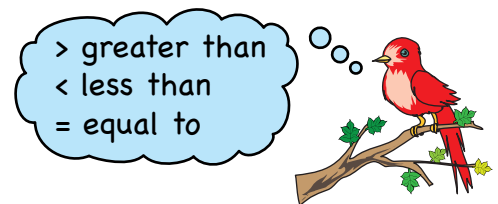
\_\_\_\_\_

- 21.** Compare these quantities. Use  $>$ ,  $<$ , or  $=$ .

**A.** 100 cm  100 inches

**B.** 5 meter  5 inches

**C.** 1 meter  5 cm



**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

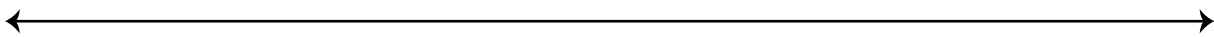
**23.** Solve the problem using a mental math strategy or paper-and-pencil method. Estimate to check if your answer is reasonable.

Estimate

$$\begin{array}{r} 49 \\ + 23 \\ \hline \end{array}$$

**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:



**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.

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

My Solution:

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

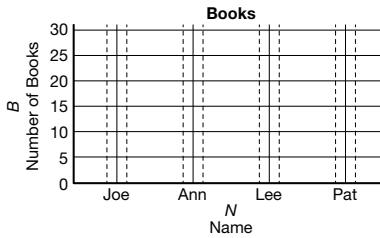
Name \_\_\_\_\_ Date \_\_\_\_\_

**Midyear Test**

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

1. Make a bar graph of the number of books.

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



2. How many more books does Ann have than Pat?

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

3. How many more books does Ann have than Lee?

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

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Assessment Master

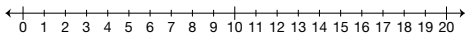
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**Teacher Guide - Page 1**

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

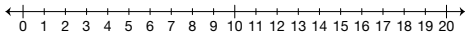
Show or tell how you solved the problem and write a number sentence. Remember to use labels.

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



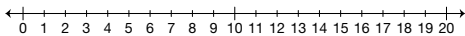
Number sentence \_\_\_\_\_

5. 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 \_\_\_\_\_

6. 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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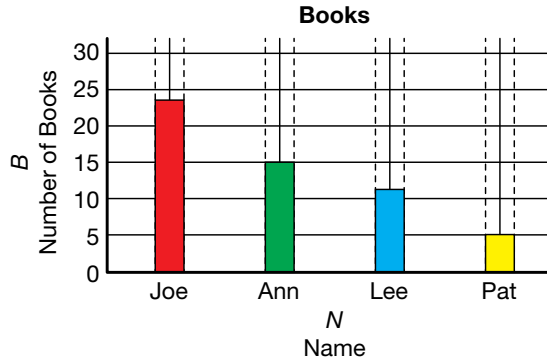
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**Midyear Test (TG pp. 1–9)  
Questions 1–25**

1. 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.



2. 10 books;  $15 - 5 = 10$
3. 4 books;  $15 - 11 = 4$

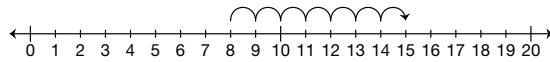
For questions 4–6, strategies will vary. Possible strategies are shown.

4. 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. 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:  $\boxed{5} \text{ tiles} + 7 \text{ tiles} = 12 \text{ tiles}$

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



6. 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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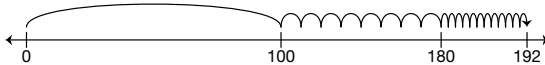
7. Possible responses:

	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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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.  $14 - 8$  ○  $12 - 6$

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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.

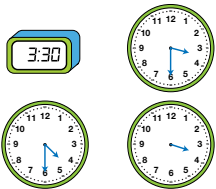
A.  $415 = 100 + 40 + 5$  True False

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				

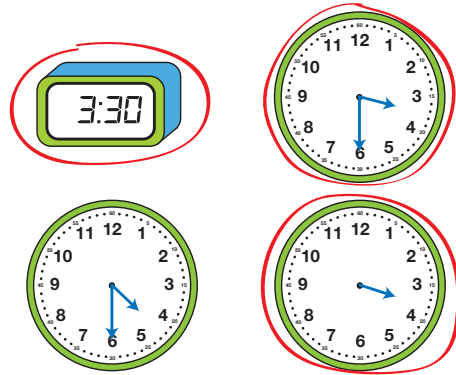
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13. A.  $3 + 5 = 8$   
 B.  $5 + 3 = 8$   
 C.  $8 - 3 = 5$   
 D.  $8 - 5 = 3$

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

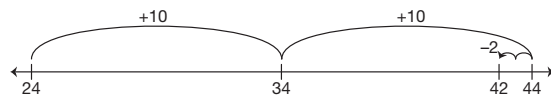
15. A.



- 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:

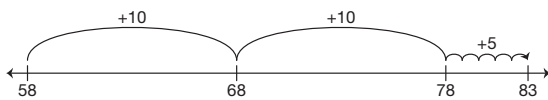
Estimate

$$\begin{array}{r} 49 \\ + 23 \\ \hline 12 \\ \hline 60 \\ \hline 72 \end{array} \qquad \begin{array}{r} 50 \\ + 20 \\ \hline 70 \end{array}$$

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.  $75 - 3 = 72$ .

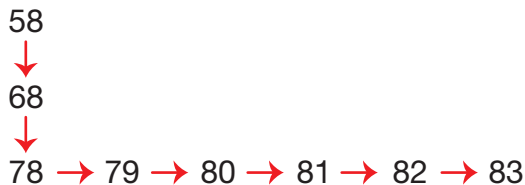
24. Responses may vary. Possible responses are shown.

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

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



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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

$$\begin{array}{r} 49 \\ + 23 \\ \hline \end{array}$$

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.