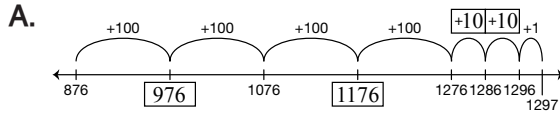


Student Activity Book

Finish It: Addition (SAB pp. 729–730)  
Questions 1–6

1. \* Possible estimate: 1200



Number sentence:  $876 + 421 = 1297$

B.

$$\begin{array}{r} 876 = 800 + \underline{70} + \underline{6} \\ + 421 = 400 + \underline{20} + \underline{1} \\ \hline 1200 + \underline{90} + \underline{7} = 1297 \end{array}$$

C.

$$\begin{array}{r} 876 \\ + 421 \\ \hline 1200 \\ \boxed{90} \\ \boxed{7} \\ \hline \boxed{1297} \end{array}$$

D.

$$\begin{array}{r} 876 \\ + 421 \\ \hline 1297 \end{array}$$

- Students' responses should reflect that they solved the same problem in a variety of ways. If they got the same answer with each solution, they should feel confident that their answers are reasonable.
- Ming showed he added 400 with 4 hops of 100.
- The 8 in 876 is 800 and the 4 in 421 is 400 because they are in the hundreds place.
- Chris wrote 1200 because he added  $800 + 400$ .
- $1000 + 200 + 90 + 7$

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

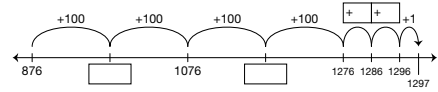
Finish It: Addition

- Ming, Rosa, Chris, and Levi started solving  $876 + 421$ . They did not finish. Estimate the sum. Help each student finish the problem using the method they chose.

$876 + 421$

Estimate \_\_\_\_\_

A. Ming used a number line:



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

B. Rosa used expanded form:

$$\begin{array}{r} 876 = 800 + \underline{\quad} + \underline{\quad} \\ + 421 = 400 + \underline{\quad} + \underline{\quad} \\ \hline \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

C. Chris used all-partials:

$$\begin{array}{r} 876 \\ + 421 \\ \hline 1200 \\ \boxed{\quad} \\ \boxed{\quad} \\ \boxed{\quad} \end{array}$$

D. Levi used the compact method:

$$\begin{array}{r} 876 \\ + 421 \\ \hline 7 \end{array}$$

Student Activity Book - Page 729

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

✓ Check-In: Questions 2-6

- Look back at your solutions in Question 1. Are your answers reasonable? How do you know?

If an answer does not seem reasonable, try again.

- In Question 1A, how did Ming show he added 400?
- In Question 1B, why did Rosa add  $800 + 400$  and not  $8 + 4$ ?
- In Question 1C, why did Chris write 1200?
- In Question 1, what do the digits in the answer 1297 stand for? Use words, numbers, or base-ten shorthand to explain.

Student Activity Book - Page 730

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

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

### Help Her Fix It

Help Confused Contessa fix her mistakes.

Tell your partner what went wrong.	Estimate, then use the same method to solve it.						
<p><b>A.</b> <math>835 = 8 + 3 + 5</math>  <math>+ 697 = 6 + 9 + 7</math>  <math>14 + 12 + 12 = 38</math></p>	<p><math>835 =</math> _____  <math>+ 697 =</math> _____</p> <p>Estimate _____</p>						
<p><b>B.</b></p> <table style="margin-left: 20px;"> <tr><td>220</td></tr> <tr><td><u>+ 798</u></td></tr> <tr><td>8</td></tr> <tr><td>110</td></tr> <tr><td><u>900</u></td></tr> <tr><td>1810</td></tr> </table>	220	<u>+ 798</u>	8	110	<u>900</u>	1810	<p>220  <math>+ 798</math></p> <p>Estimate _____</p>
220							
<u>+ 798</u>							
8							
110							
<u>900</u>							
1810							
<p><b>C.</b></p> <table style="margin-left: 20px;"> <tr><td>985</td></tr> <tr><td><u>+ 473</u></td></tr> <tr><td>13158</td></tr> </table>	985	<u>+ 473</u>	13158	<p>985  <math>+ 473</math></p> <p>Estimate _____</p>			
985							
<u>+ 473</u>							
13158							

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Adding Multidigit Numbers SAB • Grade 2 • Unit 14 • Lesson 3 733

**Student Activity Book - Page 733**

**Help Her Fix It (SAB pp. 733–734)**

**Questions A–F**

See the Lesson for what went wrong explanations. Estimates will vary. Possible estimates given.

**A.\***

$$\begin{array}{r} 835 = 800 + 30 + 5 \\ + 697 = 600 + 90 + 7 \\ \hline 1400 + 120 + 12 = 1532 \end{array}$$

Estimate 1500

**B.\***

220
<u>+ 798</u>
8
110
<u>900</u>
1018

Estimate 1000

**C.\***

985
<u>+ 473</u>
1458

Estimate 1500

**D.\***

256
<u>+ 132</u>
388

Estimate 400

**E.\***

714
<u>+ 532</u>
1246

Estimate 1200

**F.\***

837
<u>+ 164</u>
1001

Estimate 1000

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

Tell your partner what went wrong.	Estimate, then use the same method to solve it.						
<p><b>D.</b></p> <table style="margin-left: 20px;"> <tr><td>256</td></tr> <tr><td><u>+ 132</u></td></tr> <tr><td>499</td></tr> </table>	256	<u>+ 132</u>	499	<p>256  <math>+ 132</math></p> <p>Estimate _____</p>			
256							
<u>+ 132</u>							
499							
<p><b>E.</b></p> <table style="margin-left: 20px;"> <tr><td>714</td></tr> <tr><td><u>+ 532</u></td></tr> <tr><td>1200</td></tr> <tr><td>400</td></tr> <tr><td><u>600</u></td></tr> <tr><td>2200</td></tr> </table>	714	<u>+ 532</u>	1200	400	<u>600</u>	2200	<p>714  <math>+ 532</math></p> <p>Estimate _____</p>
714							
<u>+ 532</u>							
1200							
400							
<u>600</u>							
2200							
<p><b>F.</b></p> <table style="margin-left: 20px;"> <tr><td>837</td></tr> <tr><td><u>+ 164</u></td></tr> <tr><td>891</td></tr> </table>	837	<u>+ 164</u>	891	<p>837  <math>+ 164</math></p> <p>Estimate _____</p>			
837							
<u>+ 164</u>							
891							

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734 SAB • Grade 2 • Unit 14 • Lesson 3 Adding Multidigit Numbers

**Student Activity Book - Page 734**

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

**Shark Day (SAB pp. 735–737)**

**Questions 1–5**

Estimates and solution strategies for Questions 1–5 will vary.

1. Estimate: 1000;  $530 + 482 = 1012$  pounds
2. Estimate: 1600;  $973 + 618 = 1591$  shark teeth
3. Estimate: 1200;  $453 + 712 = 1165$  sharks
4. Estimate = 1600; Possible mental math strategy: Think about money.  $75¢ + 75¢ = 150¢$  so  $750 + 750 = 1500$ .  $750 + 750 = 1500$  gallons
5. Estimate: 800; Possible paper-and-pencil strategy:

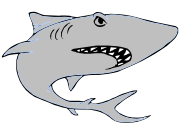
$$\begin{array}{r} 388 = 300 + 80 + 8 \\ + 435 = 400 + 30 + 5 \\ \hline 700 + 110 + 13 = 823 \end{array}$$

$388 + 435 = 823$  miles

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

**Shark Day**

Mrs. Dewey's class spent a day studying sharks. Use the *Addition Strategies Menu* in the Reference section to help you solve each problem. Estimate first to make sure your answer is reasonable. Show or tell how you solved each problem. Include number sentences and labels.



1. Grace read that one hammerhead shark weighed 530 pounds. Another hammerhead shark weighed 482 pounds. She wondered if their combined weight would be more than 1000 pounds. Find the weight of the two sharks together.

Estimate:

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

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Adding Multidigit Numbers SAB • Grade 2 • Unit 14 • Lesson 3 **735**

**Student Activity Book - Page 735**

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

2. Bull sharks have 50 rows of teeth and can lose up to four teeth a week. A scientist from South Africa had 973 shark teeth in his collection and a scientist from Australia had 618 shark teeth in her collection. When they put their collections together, how many shark teeth did the scientists have to study?

Estimate:

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

3. Scientists recorded the number of sharks swimming along the coast. There were 453 black tip sharks and 712 spinner sharks. How many sharks did the scientists see altogether?

Estimate:

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

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736 SAB • Grade 2 • Unit 14 • Lesson 3 Adding Multidigit Numbers

**Student Activity Book - Page 736**

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

✓ **Check-In: Questions 4-5**

4. Use mental math to solve this problem.

Darius learned that whale sharks feed on tiny ocean creatures as they take huge gulps of water. A whale shark gulps and filters about 750 gallons of water in 30 minutes. About how much water does a whale shark gulp in one hour?

Estimate:

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

5. Use a paper-and-pencil strategy to solve this problem.

Peter learned that sharks like to travel to warmer waters. Great white sharks migrate between California and Hawaii. One shark swam 388 miles in one week and 435 miles the next week. How far did the shark swim in two week?

Estimate:

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

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Adding Multidigit Numbers SAB • Grade 2 • Unit 14 • Lesson 3 **737**

**Student Activity Book - Page 737**

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

### My Own Addition Strategies Menu


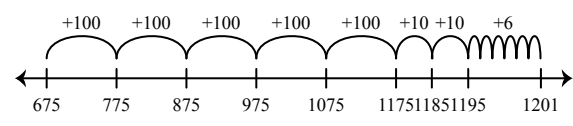
Solve the problem using each strategy. Draw a cloud around mental math strategies.

<p style="text-align: center;"><b>Finding Friendly Numbers</b></p> $675 + 526$	<p style="text-align: center;"><b>Using Base-Ten Pieces</b></p> $\begin{array}{r} 675 \\ + 526 \\ \hline \end{array}$
<p style="text-align: center;"><b>Counting On</b></p> $675 + 526$	<p style="text-align: center;"><b>Using Expanded Form</b></p> $675 = \underline{\hspace{2cm}}$ $+ 526 = \underline{\hspace{2cm}}$
<p style="text-align: center;"><b>Using All-Partials</b></p> $\begin{array}{r} 675 \\ + 526 \\ \hline \end{array}$	<p style="text-align: center;"><b>Using the Compact Method</b></p> $\begin{array}{r} 675 \\ + 526 \\ \hline \end{array}$

Adding Multidigit Numbers SAB • Grade 2 • Unit 14 • Lesson 3 **739**

**Student Activity Book - Page 739**

**My Own Addition Strategies Menu (SAB p. 739)**

<p style="text-align: center;"><b>Finding Friendly Numbers</b></p> $675 + 526$ <div style="border: 1px solid black; border-radius: 50%; width: fit-content; margin: 10px auto; padding: 5px;"> <math display="block">700 + 500 = 1200</math> </div>	<p style="text-align: center;"><b>Using Base-Ten Pieces</b></p> <div style="display: flex; align-items: center;"> <math display="block">\begin{array}{r} 675 \\ + 526 \\ \hline 1201 \end{array}</math>  </div>									
<p style="text-align: center;"><b>Counting On</b></p> $675 + 526$ <p>I think about money.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: right;">\$6.00</td> <td style="text-align: center;">25¢ + 25¢ + 25¢ + 25¢ + 1¢</td> <td style="text-align: left;">= \$1.01</td> </tr> <tr> <td style="text-align: right;">+ \$5.00</td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">\$11.00</td> <td></td> <td></td> </tr> </table> <p style="text-align: center;">\$12.01</p> 	\$6.00	25¢ + 25¢ + 25¢ + 25¢ + 1¢	= \$1.01	+ \$5.00			\$11.00			<p style="text-align: center;"><b>Using Expanded Form</b></p> $\begin{array}{r} 675 = 600 + 70 + 5 \\ + 526 = 500 + 20 + 6 \\ \hline 1100 + 90 + 11 = 1201 \end{array}$
\$6.00	25¢ + 25¢ + 25¢ + 25¢ + 1¢	= \$1.01								
+ \$5.00										
\$11.00										
<p style="text-align: center;"><b>Using All-Partials</b></p> $\begin{array}{r} 675 \\ + 526 \\ \hline 11 \\ 90 \\ \hline 1100 \\ 1201 \end{array}$										
<p style="text-align: center;"><b>Using the Compact Method</b></p> $\begin{array}{r} 675 \\ + 526 \\ \hline 1201 \end{array}$										

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Teacher Guide


One Way or Another (TG pp. 1–2)  
Homework  
Questions 1–5

Solution strategies for Question 1–5 will vary.

1.  $788 + 788 = 1576$  miles
2.  $617 + 652 = 1269$  shells
3.  $538 + 426 = 964$  shark teeth
4.  $\$3.24 + \$5.56 = \$8.80$
5. Answers will vary.

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

### One Way or Another



Dear Family Member:


Your child has been using strategies to solve addition problems with larger multidigit numbers. Some problems are best solved with mental math, while others are best solved with paper and pencil. Some paper-and-pencil strategies are:

Expanded Form	All Partials	Compact
$653 = 600 + 50 + 3$	$653$	$\begin{array}{r} 11 \\ 653 \\ + 738 \\ \hline 1451 \end{array}$
$+ 738 = 700 + 30 + 8$	$+ 738$	
$1300 + 140 + 11 = 1451$	$\begin{array}{r} 1300 \\ 140 \\ 11 \\ \hline 1451 \end{array}$	

Thank you.

**Solve each word problem with mental math or paper and pencil. Show your work and include labels.**

1. Carla's family drove 788 miles to Florida. They spent a week on the beach and then drove home. How many miles did they drive to Florida and back?
2. Carla's brothers and sisters collected seashells for a week. The girls collected 617 shells and the boys collected 652 shells. How many shells did they collect altogether?



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Homework Master
TG • Grade 2 • Unit 14 • Lesson 3 |

Teacher Guide - Page 1

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

3. A museum has a collection of shark teeth. One display case shows 538 teeth and another smaller case shows 426 teeth. How many shark teeth are displayed?
4. Carla bought an ice cream cone for \$3.24. Carla's sister bought an ice cream sundae for \$5.56. What is the total cost of the ice cream treats?



5. Choose one problem and show how to solve it another way.

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2 TG • Grade 2 • Unit 14 • Lesson 3
Homework Master

Teacher Guide - Page 2