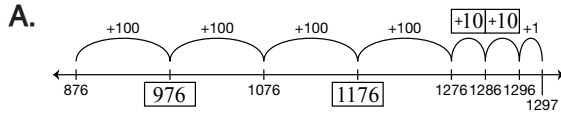## Student Activity Book

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

1.* Possible estimate: 1200

A.

Number sentence: 876 + 421 = 1297

B.
$$876 = 800 + \underline{\ 70\ } + \underline{\ 6\ }$$
$$+\ 421 = 400 + \underline{\ 20\ } + \underline{\ 1\ }$$
$$\underline{\ 1200\ } + \underline{\ 90\ } + \underline{\ 7\ } = \underline{\ 1297\ }$$

C.
```
  876
+ 421
 1200
 ┌────┐
 │ 90 │
 ├────┤
 │  7 │
 ├────┤
 │1297│
 └────┘
```

D.
```
  876
+ 421
 1297
```

2. 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.

3. Ming showed he added 400 with 4 hops of 100.

4. The 8 in 876 is 800 and the 4 in 421 is 400 because they are in the hundreds place.

5. Chris wrote 1200 because he added 800 + 400.

6. 1000 + 200 + 90 + 7
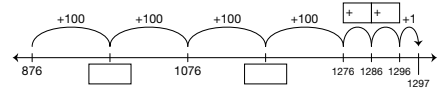

Name _____ Date _____

Finish It: Addition

1. 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:
$$876 = 800 + \underline{\qquad} + \underline{\qquad}$$
$$+\ 421 = 400 + \underline{\qquad} + \underline{\qquad}$$

$$\underline{\qquad} + \underline{\qquad} + \underline{\qquad} = \underline{\qquad}$$

C. Chris used all-partials:
```
  876
+ 421
 1200
 ┌────┐
 │    │
 ├────┤
 │    │
 ├────┤
 │    │
 └────┘
```

D. Levi used the compact method:
```
  876
+ 421
    7
```

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Name _____ Date _____

✓ **Check-In: Questions 2-6**

2. 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.

3. In Question 1A, how did Ming show he added 400?

4. In Question 1B, why did Rosa add 800 + 400 and not 8 + 4?

5. In Question 1C, why did Chris write 1200?

6. In Question 1, what do the digits in the answer 1297 stand for? Use words, numbers, or base-ten shorthand to explain.

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*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.
A. 835 = 8 + 3 + 5 + 697 = 6 + 9 + 7 14 + 12 + 12 = 38	835 = _____ + 697 = _____ Estimate _____
B. 220 + 798 8 110 900 1810	220 + 798 Estimate _____
C. 985 + 473 13158	985 + 473 Estimate _____

Adding Multidigit Numbers   SAB · Grade 2 · Unit 14 · Lesson 3   **733**

Student Activity Book - Page 733

Name _____ **Date** _____

Tell your partner what went wrong.	Estimate, then use the same method to solve it.
D. ¹¹¹ 256 + 132 499	256 + 132 Estimate _____
E. 714 + 532 1200 400 600 2200	714 + 532 Estimate _____
F. 837 + 164 891	837 + 164 Estimate _____

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

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

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.*
$$835 = \underline{800 + 30 + 5}$$
$$+ 697 = \underline{600 + 90 + 7}$$
$$1400 + 120 + 12 = 1532$$

Estimate ___1500___

B.*
$$\begin{array}{r} 220 \\ + 798 \\ \hline 8 \\ 110 \\ \underline{900} \\ 1018 \end{array}$$

Estimate ___1000___

C.*
$$\begin{array}{r} {}^1 985 \\ + 473 \\ \hline 1458 \end{array}$$

Estimate ___1500___

D.*
$$\begin{array}{r} 256 \\ + 132 \\ \hline 388 \end{array}$$

Estimate ___400___

E.*
$$\begin{array}{r} 714 \\ + 532 \\ \hline 1246 \end{array}$$

Estimate ___1200___

F.*
$$\begin{array}{r} {}^1 837 \\ + 164 \\ \hline 1001 \end{array}$$

Estimate ___1000___

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
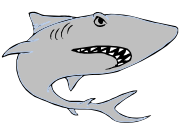
5. Estimate: 800; Possible paper-and-pencil strategy:

$$388 = 300 + 80 + 8$$
$$+\ 435 = 400 + 30 + 5$$
$$700 + 110 + 13 = 823$$

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 _____

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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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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Student Activity Book - Page 739

My Own Addition Strategies Menu (SAB p. 739)
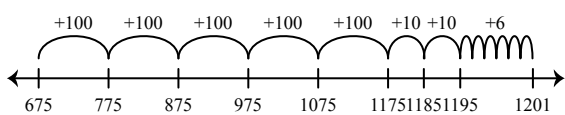
Finding Friendly Numbers	Using Base-Ten Pieces
675 + 526 700 + 500 = 1200	675 + 526 1201

Counting On	Using Expanded Form
675 + 526	$675 = \ 600 + 70 + \ 5$ $+ \ 526 = \ 500 + 20 + \ 6$ $\qquad 1100 + 90 + 11 = 1201$

Counting On:

I think about money.

$6.00   25¢ + 25¢ + 25¢ + 25¢ + 1¢
+ $5.00   = $1.01
$11.00
                    $12.01

+100 +100 +100 +100 +100 +10 +10 +6

675 775 875 975 1075 1175 1185 1195 1201

Using All-Partials

675
+ 526
11
90
1100
1201

Using the Compact Method

$\overset{1\ 1}{675}$
+ 526
1201