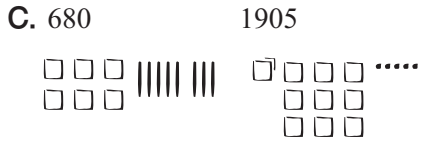
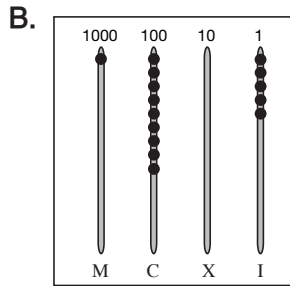
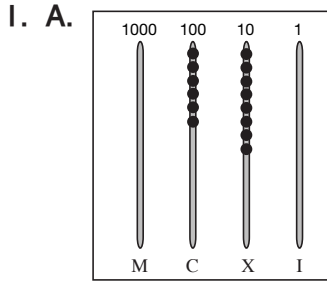


Student Activity Book

Helping Leonardo the Traveler Solve Problems
(SAB pp. 247–252)

Questions 1–10

Strategies may vary. One possible strategy:



2. A.
$$\begin{array}{r} 3204 \\ +1327 \\ \hline \end{array}$$

B.
$$\begin{array}{r} 1 \\ 3204 \\ +1327 \\ \hline 4531 \end{array}$$

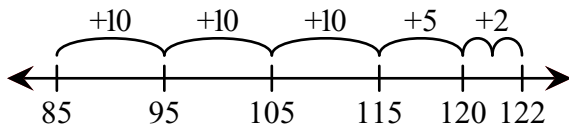
3. A. 37
B. 85
C. Expanded form:

$$37 = 30 + 7$$

$$85 = 80 + 5$$

$$110 + 12 = 122$$

Number Line (Possible response):



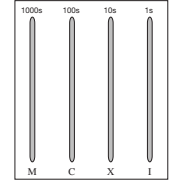
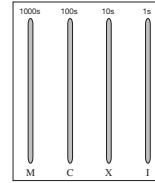
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Name _____ Date _____

Helping Leonardo the Traveler Solve Problems

In the beginning of the story, Leonardo learned to use the abacus. Use the pictures below to show numbers the way Leonardo's father taught him.

1. A. Draw pebbles on the abacus to show 680. B. Draw pebbles on the abacus to show 1905.



- C. Use base-ten shorthand to show each of these numbers. Use the Fewest Pieces Rule.

680

1905

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Leonardo the Traveler

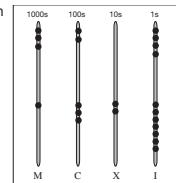
SAB • Grade 3 • Unit 7 • Lesson 6 247

Student Activity Book - Page 247

Name _____ Date _____

Complete the questions. Use the Addition Strategies Menu and the Subtraction Strategies Menu in the Reference section when needed.

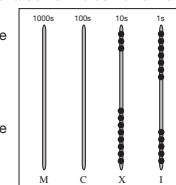
2. A. What two numbers are shown on the abacus?



- B. Add these two numbers together using the compact method.

3. The Arab teacher, Ali, showed Leonardo how to combine the two numbers shown on the abacus.

- A. What number is shown on the top part of the abacus?



- B. What number is shown on the bottom part of the abacus?

- C. Show Leonardo how to add the numbers shown on the abacus using expanded form and a number line.



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248 SAB • Grade 3 • Unit 7 • Lesson 6

Leonardo the Traveler

Student Activity Book - Page 248

Answer Key • Lesson 6: Leonardo the Traveler

Name _____ Date _____

4. A. The problem that Ali showed Leonardo is below. Help Leonardo finish the problem.

$$\begin{array}{r} 1 \\ 37 \\ + 85 \\ \hline 2 \end{array}$$

B. What does the little one above the 3 stand for?

5. Help Leonardo solve the problem using the compact method. Think of base-ten pieces and show your trades.

$$\begin{array}{r} 95 \\ - 37 \\ \hline \end{array}$$

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Leonardo the Traveler SAB • Grade 3 • Unit 7 • Lesson 6 249

4. A.
$$\begin{array}{r} 1 \\ 37 \\ + 85 \\ \hline 122 \end{array}$$
- B. The total from the ones column is 12. The one above the 3 represents 1 ten of the 12 ones.
5.
$$\begin{array}{r} 85 \\ \cancel{85} \\ - 37 \\ \hline 58 \end{array}$$
6. A. 9 tens; 5 ones
 B. $90 + 5 = 95$
7. A. 8 tens; 15 ones
 B. Yes; 8 tens (or 80) plus 15 ones equals 95.
 C. $80 + 15 = 95$
 D. $37 + 3 = 40$
 $40 + 55 = 95$
 $55 + 3 = 58$
 $95 - 37 = 58$

Student Activity Book - Page 249

Name _____ Date _____

6. Look at the abacus that Leonardo used to show 95 in the problem $95 - 37$.

A. How many tens and how many ones does the abacus show?

B. Write a number sentence for what the abacus shows.

7. Look at the way Leonardo made trades on the abacus.

A. How many tens and how many ones does the abacus show now?

B. Does the abacus still show a number that is equal to 95? Tell how you know.

C. Write a number sentence for what the abacus shows.

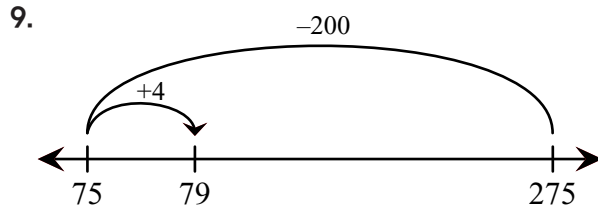
D. Show Leonardo how to use counting up to solve $95 - 37$.

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250 SAB • Grade 3 • Unit 7 • Lesson 6 Leonardo the Traveler

Student Activity Book - Page 250

8. A. 7 tens
 B. 14 ones
 C. $70 + 14 = 84$
 D. No, $7 + 14$ does not equal 84. Omar is adding 7 ones to 14 but he needs to add 7 tens to 14.
 E. $84 = 80 + 4 = 70 + 14$
 $25 = 20 + 5 = 20 + 5$
 $50 + 9 = 59$



Name _____ Date _____

8. Leonardo and Omar solved this problem.

A. What does the 7 above the 8 stand for?

B. What does the 14 above the 4 stand for?

C. Complete the number sentence below to show 84 after trades are made.
 $70 + \underline{\quad} = 84$

D. Omar wrote the number sentence $7 + 14 = 84$.
 Do you agree with Omar? Why or why not?

E. Show Leonardo how to use expanded form to solve $84 - 25$.

9. Show Leonardo how to solve $275 - 196 = \underline{\quad}$ using counting back on a number line.

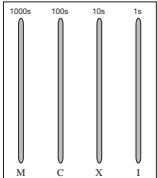
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Leonardo the Traveler SAB • Grade 3 • Unit 7 • Lesson 6 251

Student Activity Book - Page 251

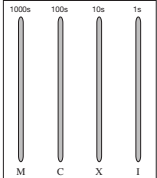
Name _____ Date _____

10. A. Draw pebbles on the abacus to show 42.



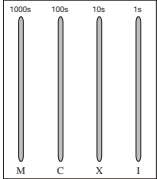
Number sentence: _____

B. Draw pebbles on the abacus to show 42 another way.



Number sentence: _____

C. Use the abacus to show $42 - 17$.



Number sentence: _____

D. Solve $42 - 17$ using expanded form.

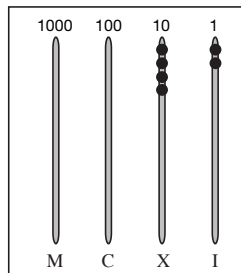
E. Compare the abacus strategy to the expanded form. How are they similar?

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252 SAB • Grade 3 • Unit 7 • Lesson 6 Leonardo the Traveler

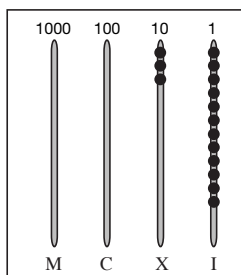
Student Activity Book - Page 252

10. A.



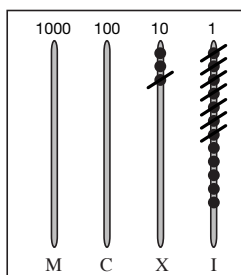
$$40 + 2 = 42$$

B. Possible responses given:



$$30 + 12 = 42$$

C.



$$42 - 17 = 25$$

$$D. \quad 42 = 40 + 2 = 30 + 12$$

$$17 = 10 + 7 = 10 + 7$$

$$20 + 5 = 25$$

E. In both methods, numbers are lined up in order of place value. In both methods, 1 ten is traded for 10 ones or 10 ones are traded for 1 ten. In both methods, numbers are broken into tens and ones.