

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

**Show Different Partitions Are Equal**

Use base-ten pieces and number lines as needed for Questions 1–6.


★1. A. Show 261 using base-ten shorthand.

B. Now show 261 another way, still using base-ten shorthand.

C. Write number sentences to match your answers in 1A and 1B.

D. Do either of your answers follow the Fewest Pieces Rule? If so, which one? If neither one does, show 261 with base-ten shorthand following the Fewest Pieces Rule. Write a number sentence to match.

★2. Lee Yah showed a number using base-ten shorthand:



Lee Yah said, "The number sentence that matches is  $400 + 17 + 17 = 434$ . My number is 434."

A. Mrs. Dewey said that Lee Yah made a mistake. What is Lee Yah's mistake?

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104 SAB - Grade 4 - Unit 4 - Lesson 3 Number Sentences

**Student Activity Book - Page 104**

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

B. How much are all the skinnies worth in Lee Yah's shorthand?

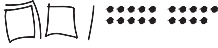
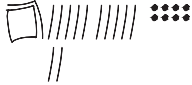
C. How much are all the bits worth? \_\_\_\_\_

D. What number did Lee Yah really show with her base-ten shorthand?

E. Write a correct number sentence to match Lee Yah's base-ten shorthand.

★3. Roberto and Jerome both showed 1129 using base-ten shorthand.

Roberto Jerome

A. If they are both correct, tell how you know. If one is not correct, correct it.

B. Write a number sentence next to each correct picture of 1129.

C. Combine these two number sentences into one true number sentence.

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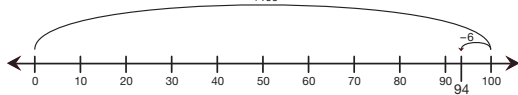
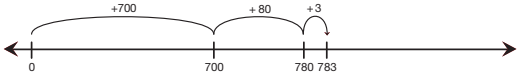
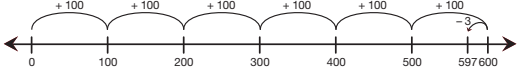
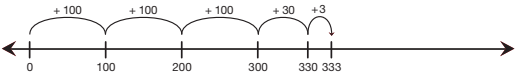
Number Sentences SAB - Grade 4 - Unit 4 - Lesson 3 105

**Student Activity Book - Page 105**

**Student Activity Book**

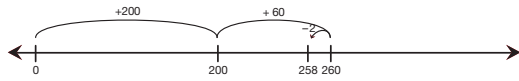
**Number Lines and Number Sentences**

**Questions 1–15 (SAB pp. 104–111)**

1. Answers will vary. Possible response shown.
  - A. 
  - B. 
  - C. If using solutions 1A and 1B above:  
 $200 + 60 + 1 = 261$ ;  $200 + 50 + 11 = 261$
  - D. If using 1A, yes. Fewest Pieces is  
 $200 + 60 + 1 = 261$
2. A. She counted each skinny as 1 instead of 10.  
 B. 170  
 C. 17  
 D. 587  
 E.  $400 + 170 + 17 = 587$
3. A. They are both correct.  
 $1000 + 100 + 10 + 19 = 1000 + 120 + 9$   
 B. Roberto:  $1000 + 100 + 10 + 19 = 1129$   
 Jerome:  $1000 + 120 + 9 = 1129$   
 C.  $1000 + 100 + 10 + 19 = 1000 + 120 + 9$
4. Answers for 4A–E will vary. Possible response shown.
  - A. 
  - B. 
  - C. 
  - D.  $10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 4 = 94$
  - E.  $100 - 6 = 94$
5. A. True  

  
 B. True  

  
 C. False  


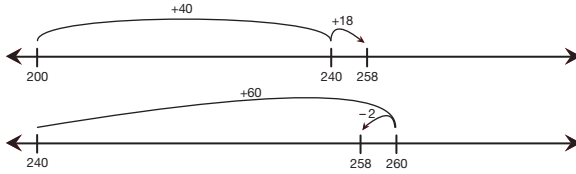
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D. False

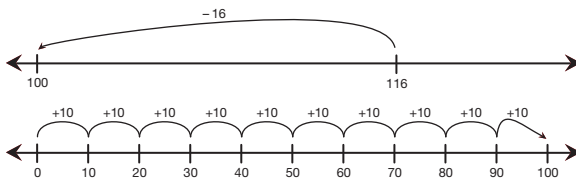


E. Answers will vary. See above.

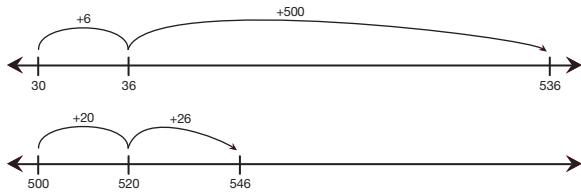
6. A. True



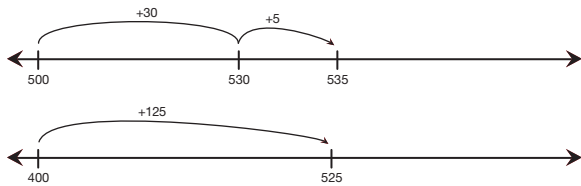
B. True



C. False



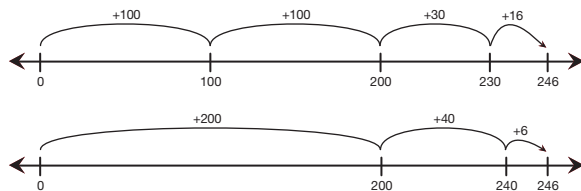
D. False



E. Answers will vary. See above.

7. Possible response:

$$100 \times 2 + 30 + 16 = 100 + 100 + 40 + 6$$



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

- 4. A. Show 94 using base-ten shorthand.
- B. Use this number line to show how a base-ten hopper can get from 0 to 94. Match the hops to the base-ten pieces you drew in Question 4A.



- C. Use this number line to show a different way a base-ten hopper can get from 0 to 94. Try to use fewer hops than you used before.



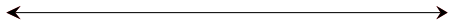
- D. Write a number sentence to match the hops in Question 4B.

- E. Write a number sentence to match the hops in Question 4C.

- 5. Tell whether each of these number sentences is true or false.

	True	False
A. $783 = 700 + 80 + 3$		
B. $597 = (6 \times 100) - 3$		
C. $(3 \times 100) + 30 + 3 = 133$		
D. $262 = 200 + 60 - 2$		

- E. Choose one number sentence from Question 5 and use this number line to show that your answer is correct.



Student Activity Book - Page 106

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

- 6. Tell whether each of these number sentences is true or false.

	True	False
A. $200 + 40 + 18 = 200 + 60 - 2$		
B. $116 - 16 = 10 \times 10$		
C. $30 + 6 + 500 = 500 + 20 + 26$		
D. $500 + 30 + 5 = 400 + 125$		

- E. Choose one number sentence from Question 6 and use these number lines to show that your answer is correct. Use one number line for each side of the equation.



- 7. Write a true number sentence similar to those in Question 6. Use these number lines to show that the number sentence is true.



Student Activity Book - Page 107

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

**Add Using Number Lines**

★8. A. Use this number line to show how a base-ten hopper can start at 450 and hop 238 ahead.



B. Where does it land? \_\_\_\_\_  
 C. Write an equation (a true number sentence) to match the hops.

D. Complete the number sentence.  $450 + 238 = \square$ .

E. Write another number sentence in the same family.

★9. What number must  $n$  be to make the number sentence true?

A.  $17 + n = 30$                        $n = \underline{\hspace{2cm}}$

B.  $100 + n + 8 = 138$                $n = \underline{\hspace{2cm}}$

C.  $200 + 10 + n = 225$                $n = \underline{\hspace{2cm}}$

D.  $379 = n + 70 + 9$                  $n = \underline{\hspace{2cm}}$

E. Choose one number sentence and use this number line to show that your answer is correct.



8. A. Possible response:



B. 688

C. Possible response:

$$450 + 200 + 40 - 2 = 688$$

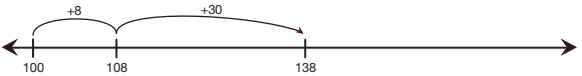
D. 688

E.  $238 + 450 = 688$ ;  $688 - 238 = 450$ ;  
 $688 - 450 = 238$

9. A.  $n = 13$



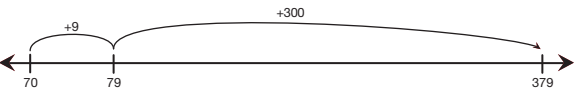
B.  $n = 30$



C.  $n = 15$

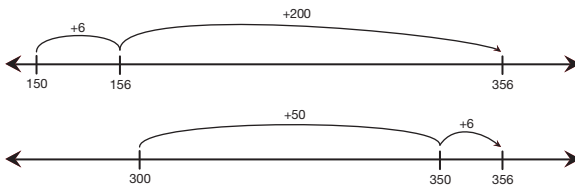


D.  $n = 300$

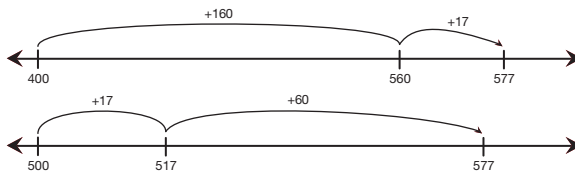


E. Answers will vary. See above.

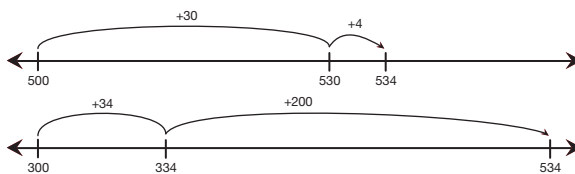
10. A.  $n = 200$



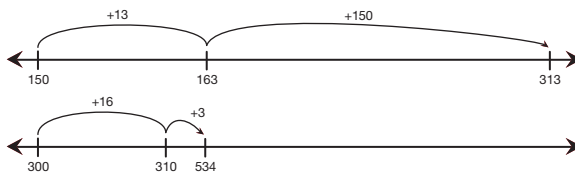
B.  $n = 60$



C.  $n = 200$



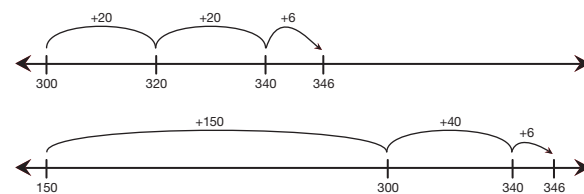
D.  $n = 150$



E. Answers will vary. See above.

11. Possible response:

$$300 + 20 + 20 + 6 = 150 + 150 + 40 + 6$$



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

10. What number must  $n$  be to make the number sentence true?

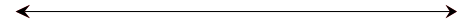
A.  $n + 150 + 6 = 300 + 50 + 6$   $n =$  \_\_\_\_\_

B.  $400 + 160 + 17 = 500 + n + 17$   $n =$  \_\_\_\_\_

C.  $500 + 30 + 4 = 300 + n + 34$   $n =$  \_\_\_\_\_

D.  $150 + n + 13 = 300 + 10 + 3$   $n =$  \_\_\_\_\_

E. Choose one number sentence and use these number lines to show that your answer is correct. Use one number line for each side of the equation.



11. Write a number sentence similar to those in Question 10. Use these number lines to show that the number sentence is true.



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

**Subtract Using Number Lines**

★12. A. Use this number line to show how a base-ten hopper can start at 500 and end at 165.

←-----→

B. Write a number sentence to match the hops.

\_\_\_\_\_

C. Complete the number sentence.  $500 - \square = 165$ .

D. Write another number sentence in the same family.

★13. A. Use this number line to show how a base-ten hopper can start at 362 and hop 398 ahead.

←-----→

B. Where does it land? \_\_\_\_\_

C. Write an equation to match the hops. \_\_\_\_\_

D. Use this number line to show a different way using a different number of hops. If possible, use fewer hops.

←-----→

E. Complete the number sentence.  $\square - 398 = 362$ .

F. Write another number sentence in the same family.

110 SAB • Grade 4 • Unit 4 • Lesson 3 Number Sentences

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**Student Activity Book - Page 110**

12. A. Possible response:



B. Possible response:  $500 - 300 - 30 - 5$

C.  $500 - 335 = 165$

D. Possible response:  $500 - 165 = 335$ ;  
 $165 + 335 = 500$ ;  $335 + 165 = 500$

13. A.



B. 760

C. Possible response:

$$362 + 38 + 60 + 300 = 760$$

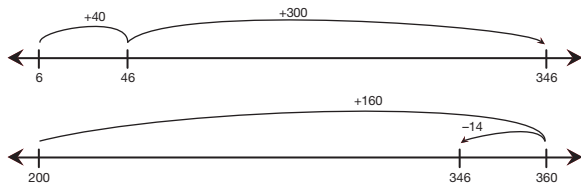
D.



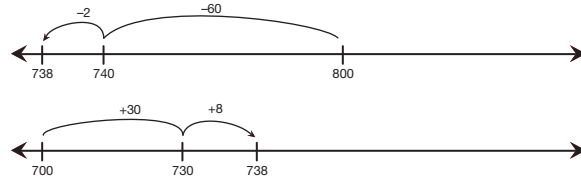
E. 760

F. Possible response:  $760 - 362 = 398$ ;  
 $362 + 398 = 760$ ;  $398 + 362 = 760$

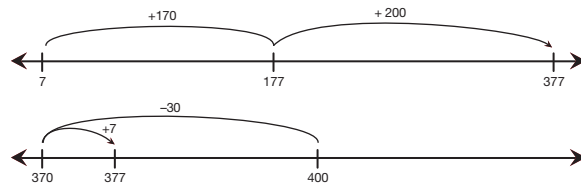
14. A.  $n = 160$



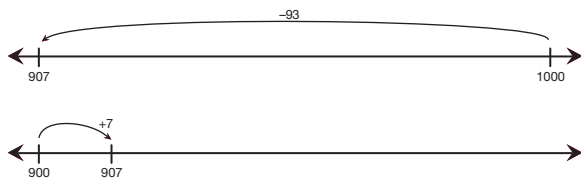
B.  $n = 30$



C.  $n = 200$



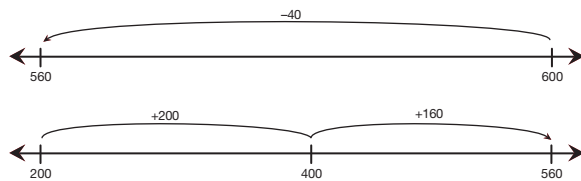
D.  $n = 7$



E. Answers will vary. See above.

15. Possible response:

$$600 - 40 = 200 + n + 160$$



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

14. What number must  $n$  be to make the number sentence true?

A.  $6 + 40 + 300 = 200 + n - 14$   $n =$  \_\_\_\_\_

B.  $800 - 60 - 2 = 700 + n + 8$   $n =$  \_\_\_\_\_

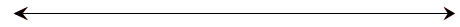
C.  $7 + 170 + n = 400 - 30 + 7$   $n =$  \_\_\_\_\_

D.  $1000 - 93 = 900 + n$   $n =$  \_\_\_\_\_

E. Choose one problem and use these number lines to show that your answer is correct. Use one number line for each side of the equation.



15. Write a subtraction number sentence similar to those in Question 14. Use these number lines to show that the number sentence is true.



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