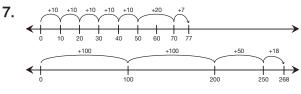
Student Guide

Number Sentences

Questions 1–14 (SG pp. 124–126)

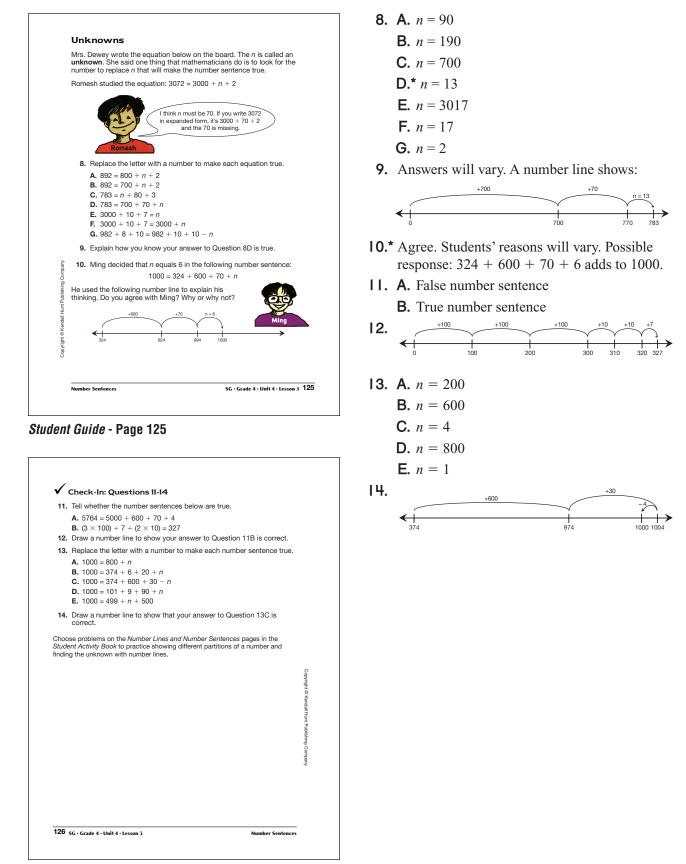
- **1. A.** False; 2 + 300 + 1000 = 1302, but $(3 \times 10) + 1000 = 30 + 1000 = 1030$. 1302 does not equal 1030.
 - **B.** True; The numbers on the right are 2074 in expanded form.
 - **C.** False; 8000 + 900 + 40 + 6 = 8946, but 8000 + 800 + 40 + 6 = 8846. 8946 does not equal 8846.
 - **D.** False; The 4 is in the tens place so it should be 5000 + 40 + 5 on the right.
 - **E.** True; 9000 + 600 + 70 + 8 = 9678 and 9000 + 678 = 9678
- **2.** Yes, the number sentence is true. Twelve hops of 100 is written as 12×100 . Hop + 5 more to make 1205.
- **4.** $(10^{+10} +10^{+10} +10^{+10} +10^{+20} +7)$
- **5.** A correct equation is the same as a true number sentence because the amounts on both sides are equal.
- **6. A.** correct equation
 - B. correct equation
 - **C.** not correct
 - **D.** correct equation
 - E. not correct



1.	Tell whether the number sentences below are true or false. Be ready to explain your thinking. You may use number lines or other strategies. A . $2 + 30 + 1000 = (3 \times 10) + 1000$ B . $2074 = 2000 + 70 + 4$	
	b. $2014 = 2000 + 70 + 4$ c. $8000 + 900 + 40 + 6 = 8000 + 800 + 40 + 6$ b. $5045 = 5000 + 400 + 5$ E. $9000 + 600 + 70 + 8 = 9000 + 678$	
2.	Study the number line below. • Do you agree that the number sentence below the number line is	
	true?How does the sentence match the moves on the number line?	
	+100 +100 +100 +100 +100 +100 +100 +100	
	(12 × 100) + 5 = 1205	
3.	Draw a number line to show that the following number sentence is true.	
	$(13 \times 10) + 4 = 134$	
4.	Draw a number line to show that the following number sentence is a correct equation.	
	(5 × 10) + 20 + 7 = 77	
5.	Is a correct equation the same as a true number sentence? Why or why not?	
6.	Tell whether the number sentences below are correct equations or n A. $35 + 100 = (3 \times 10) + 5 + 100$ B. $200 + 200 + 70 = 400 + 60 + 10$ C. $200 + 60 + 4 = 100 + 100 + 4$ D. $(6 \times 10) + 8 + 200 = (2 \times 100) + 50 + 18$ E. $(100 \times 3) + 2 = 100 + 32$	
7.	Draw 2 number lines, one for each side of the equal sign, to show why your answer to Question 6D is correct.	

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I



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

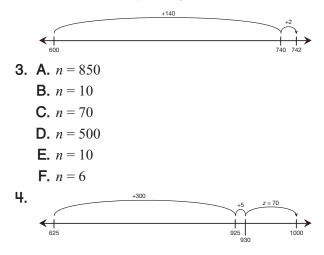
Student Guide

Homework

Questions 1-4 (SG p. 127)

- **I. A.** *n* = 100
 - **B.** *n* = 2001
 - **C.** *n* = 4000
 - **D.** *n* = 30
 - **E.** *n* = 140

2. Answers will vary. Using the number line:

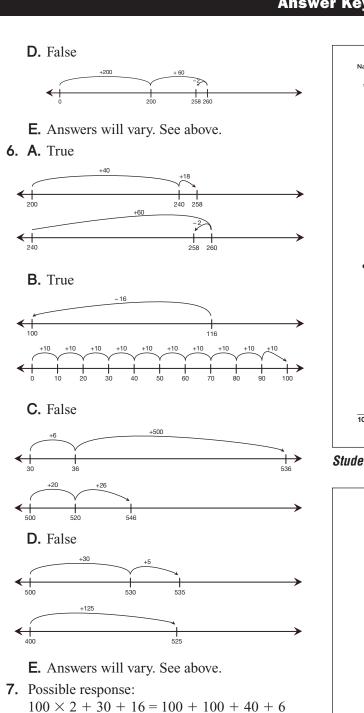


1.	Find <i>n</i> to make the number sentence true. You may use number lin or other strategies.
	A. 600 + <i>n</i> + 6 = 706
	B. 1000 + 1000 + 1 = <i>n</i> C. 4076 = <i>n</i> + 70 + 6
	D. $4076 = 77 + 70 + 6$ D. $400 + 30 + 7 = 7 + n + 400$
	E. 700 + 40 + 2 = 600 + n + 2
2.	Show or tell how you know your answer to Question 1E is correct.
3.	Replace each letter with a number to make the number sentence to You may use number lines or other strategies.
	A. 100 + 45 + 5 + <i>n</i> = 1000
	B. $1000 = 810 + 100 + 80 + n$ C. $1000 = 625 + 300 + n + 5$
	D. $1000 = 456 + 4 + 40 + n$
	E. $9000 = 8982 + 8 + n$
	F. 1000 = 756 + 200 + 50 − <i>n</i>
4.	Draw a number line to show that your answer to Question 3C is correct.
	and the second sec
	1 Alton and a second
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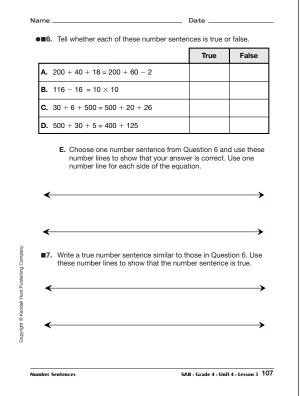
New Div	Student Activity Book
Name Date Show Different Partitions Are Equal	Number Lines and Number Sentences
Use base-ten pieces and number lines as needed for Questions 1–6.	Questions 1–15 (SAB pp. 104–111)
*1. A. Show 261 using base-ten shorthand.	
B. Now show 261 another way, still using base-ten shorthand.	I. Answers will vary. Possible response shown.
	A ///// / *
C. Write number sentences to match your answers in 1A and 1B.	B. [//// ***** *
D. Do either of your answers follow the Fewest Pieces Rule? If so,	C. If using solutions 1A and 1B above:
which one? If neither one does, show 261 with base-ten shorthand following the Fewest Pieces Rule. Write a number sentence to match.	200 + 60 + 1 = 261; 200 + 50 + 11 = 260
	D. If using 1A, yes. Fewest Pieces is
right a S	200 + 60 + 1 = 261
★2. Lee Yah showed a number using base-ten shorthand:	2. A. She counted each skinny as 1 instead of 10
*2. Lee Yah showed a number using base-ten shorthand:	B. 170
///// //	C. 17
Lee Yah said, "The number sentence that matches is $400 + 17 + 17 = 434$. My number is 434 ."	D. 587
A. Mrs. Dewey said that Lee Yah made a mistake. What is Lee Yah's mistake?	E. 400 + 170 + 17 = 587
	3. A. They are both correct.
104 SAB - Grade 4 - Unit 4 - Lesson 3 Number Sentences	1000 + 100 + 10 + 19 = 1000 + 120 + 9
	B. Roberto: $1000 + 100 + 10 + 19 = 1129$
<i>lent Activity Book</i> - Page 104	Jerome: $1000 + 120 + 9 = 1129$
	C. $1000 + 100 + 10 + 19 = 1000 + 120 + 9$
Name Date	4. Answers for 4A–E will vary. Possible respons shown.
B. How much are all the skinnies worth in Lee Yah's shorthand?	
C. How much are all the bits worth?	A. ///// //// ****
D. What number did Lee Yah really show with her base-ten shorthand?	B. +10 +10 +10 +10 +10 +10 +10 +10 +10 +10
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. 	C. +100
Roberto Jerome	
	D. $10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 $
	10 + 10 + 4 = 94
If they are both correct, tell how you know. If one is not correct,	E. $100 - 6 = 94$
correct it.	5. A. True
Kundharo 2	+700 + 80 + 3
 B. Write a number sentence next to each correct picture of 1129. C. Combine these two number sentences into one true number sentence. 	
C. Combine these two number sentences into one true number	B. True
o sentence.	+100 +100 +100 +100 +100 +100
ö	
Number Sentences SAB - Grade 4 - Unit 4 - Lesson 3 105	0 100 200 300 400 500 597600
	C. False
lent Activity Book - Page 105	+ 100 + 100 + 30 + 3
	✓ Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y

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	Date					
ι.	A. Show 94 using base-ten shorthand.					
	B. Use this number line to show how a from 0 to 94. Match the hops to the Question 4A.					
	C. Use this number line to show a diffe can get from 0 to 94. Try to use few before.					
	D. Write a number sentence to match	the hops in Qu	estion 4B.			
	E. Write a number sentence to match	the hops in Qu	estion 4C.			
•	Tell whether each of these number sent	ences is true o	or false.			
	Tell whether each of these number sent	ences is true o	or false. False			
	Tell whether each of these number sent 783 = 700 + 80 + 3					
	783 = 700 + 80 + 3					
	783 = 700 + 80 + 3 597 = (6 × 100) - 3					

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+100

100

+200

+100

200

200

230

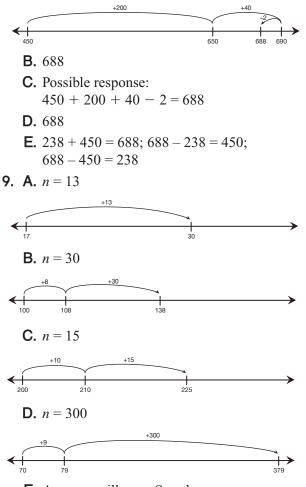
240

+40

Name .	Date					
Add U	Ising 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 =					
	E. Write another number sentence in the same family.					
★●9.	9. What number must <i>n</i> be to make the number sentence true?					
	A. 17 + n = 30 n =					
	B. 100 + <i>n</i> + 8 = 138 <i>n</i> =	9				
	C. 200 + 10 + <i>n</i> = 225 <i>n</i> =					
	D. 379 = <i>n</i> + 70 + 9 <i>n</i> =					
	A. $17 + n = 30$ $n = _$ B. $100 + n + 8 = 138$ $n = _$ C. $200 + 10 + n = 225$ $n = _$ D. $379 = n + 70 + 9$ $n = _$ E. Choose one number sentence and use this number line to show that your answer is correct.					
*	→ ¹					
108 sai	8 · Grade 4 · Unit 4 · Lesson 3 Number Sentences					

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8. A. Possible response:



E. Answers will vary. See above.

Date

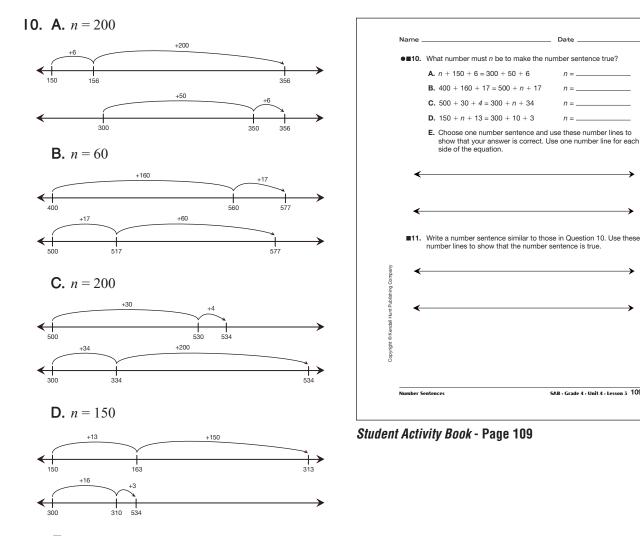
n =

n =

n =

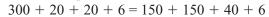
n =

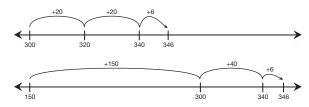
SAB · Grade 4 · Unit 4 · Lesson 3 109



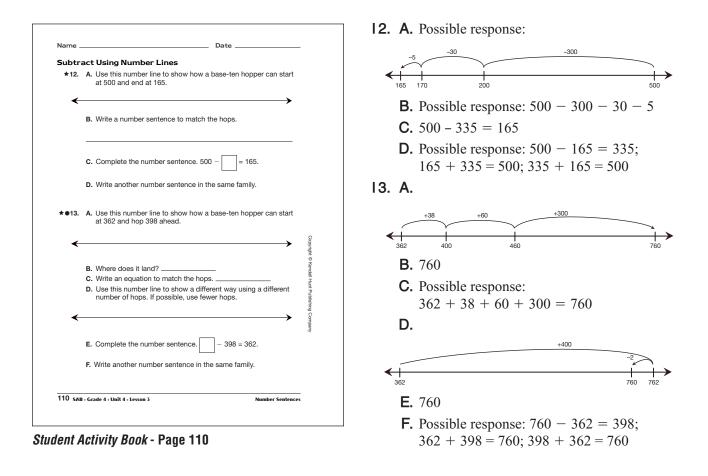
E. Answers will vary. See above.

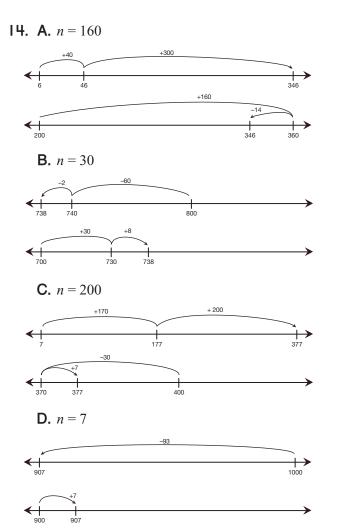
II. Possible response:

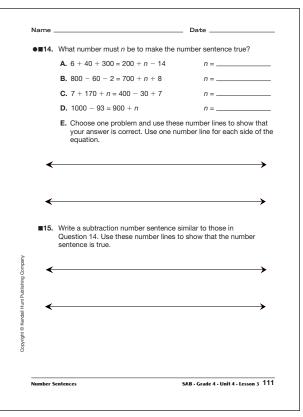








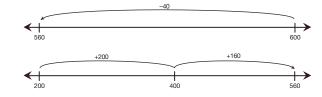




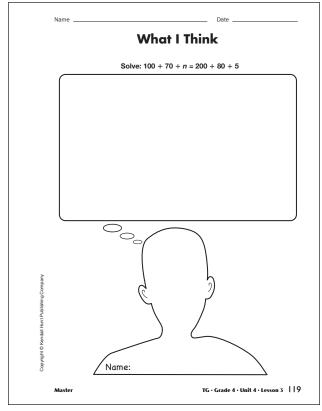
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E. Answers will vary. See above.

15. Possible response: 600 - 40 = 200 + n + 160







Teacher Guide

Teacher Guide

What I Think (TG p. 119)

Strategies will vary. Two possible responses:

n = 115; I looked at 100s, 10s, and 1s on each side. To make both sides the same, you need 100 more in the 100s, 10 more in the 10s, and 5 more in the 1s. 100 + 10 + 5 = 115, so n = 115

I added 200 + 80 + 5 = 285 on the right. Then I added 100 + 70 = 170 on the left. I knew the other side had to match, so I thought how much would I have to go on a number line to get from 170 to 285. I counted up

$$170 + (30) = 200$$

 $200 + (85) = 285$
 $30 + 85 = 115$, so $n = 115$