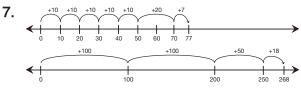
Student Guide

Number Sentences

Questions 1–14 (SG pp. 124–126)

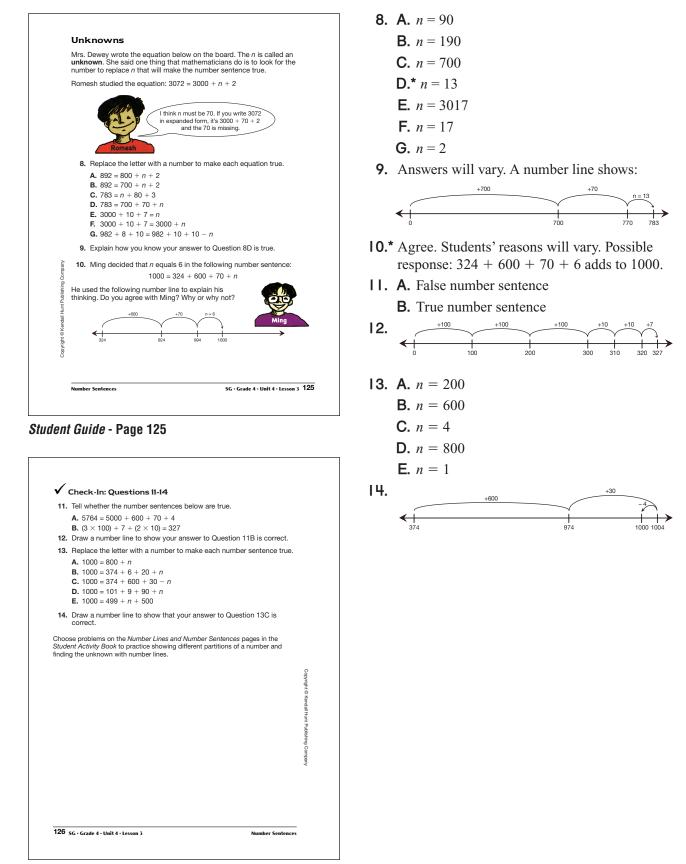
- **1.** A. False; 2 + 300 + 1000 = 1302, but $(3 \times 10) + 1000 = 30 + 1000 = 1030$. 1302 does not equal 1030.
 - **B.** True; The numbers on the right are 2074 in expanded form.
 - **C.** False; 8000 + 900 + 40 + 6 = 8946, but 8000 + 800 + 40 + 6 = 8846. 8946 does not equal 8846.
 - **D.** False; 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 not. 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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*Answers and/or discussion are included in the lesson.

Answer Key • Lesson 3: Number Sentences

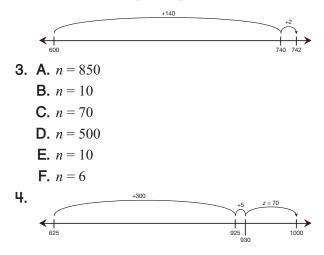
Student Guide

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.
	199
	The second s

