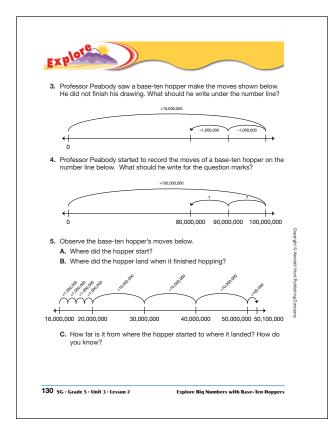


Student Guide - Page 129



Student Guide - Page 130

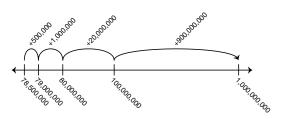
*Answers and/or discussion are included in the lesson.

Student Guide

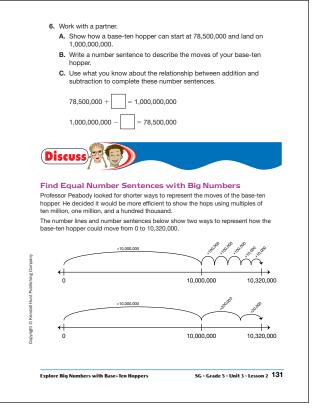
Explore Big Numbers with Base-Ten Hoppers (SG pp. 129–135) Questions 1–13

- I.* Hopper can move by 10,000; 100,000, 1,000,000 and 10,000,000
- **2.*** Hoppers can move right (+) or left (-)
- **3.** 10,000,000; 9,000,000 and 8,000,000
- **4.** -10,000,000; -10,000,000
- **5. A.** 16,000,000
 - **B.** 50,100,000
 - **C.***34,100,000 (Possible responses: I counted up and added the hops. I counted back and subtracted the hops.)

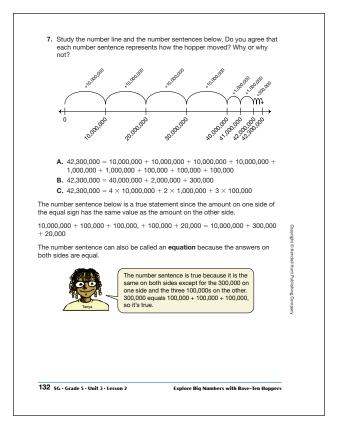
6. A.* Possible response:



- **B.** (Possible response: 78,500,000 + 500,000 + 1,000,000 + 20,000,000 + 900,000,000 = 1,000,000,000
- $\mathbf{C}. * 78,500,000 + 921,500,000 =$ 1,000,000,000 + 921,500,000 = 78,500,000
- 7. Answers will vary. Possible responses:
 - **A.** Yes. I agree because the hopper can move in multiples of 100,000; 1,000,000; and 10,000,000.
 - **B.*** Yes and no. The hopper moved 40,000,000 by hopping 10,000,000 four times not 40,000,000 at once; 2,000,000 by 2 hops of 1,000,000 and 300,000 by hopping 100,000 three times. So this number sentence represents the distance travelled by the hopper but not the exact hops of the hopper.
 - **C.*** Yes. I agree because the hopper made 4 hops of 10,000,000, 2 hops of 1,000,000 and 3 hops of 100,000.





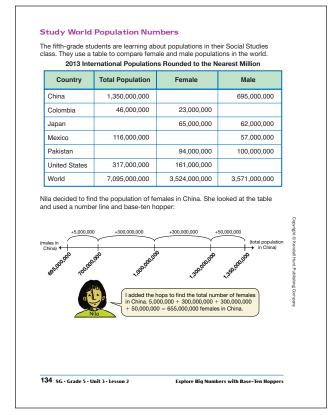


Student Guide - Page 132

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

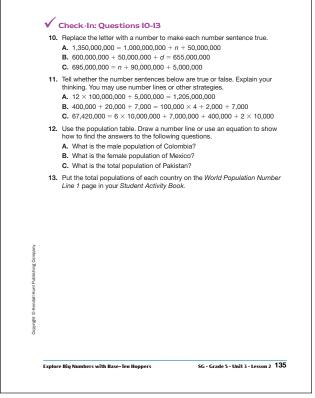


Student Guide - Page 133



Student Guide - Page 134

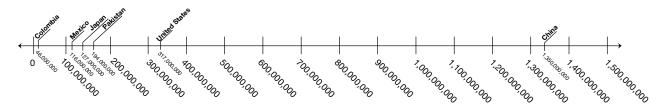
- 8. A. False
 - **B.** True
 - C. True
 - **D.** False
 - **E.** False
- **9. A.** 900,000
 - **B.** 6,000,000
 - **C.** 17,000
 - **D.** 400,000
 - **E.** 80,000
- **IO. A.** 300,000,000
 - **B.** 5,000,000
 - **C.** 600,000,000
- **11. A.** True. Possible response: I drew a number line starting at 0 and showed the hopper taking 12 hops of 100,000,000 and one hop of 5,000,000 to land on 1,205,000,000.
 - **B.** False. Possible response: I compared the numbers on both sides of the equation. $400,000 = 100,000 \times 4$ and 7,000 = 7,000 but 20,000 does not equal 2,000.
 - **C.** True. Possible response: I checked the equation by partitioning 67,420,000 into parts 60,000,000 + 7,000,000 + 400,000 + 20,000 and then compared this to the other side. I could see that $6 \times 10,000,000 = 60,000,00$ and $2 \times 10,000 = 20,000$, and 7,000,000 and 400,000 were the same as the partitioned number.



- 12. A. The male population of Colombia is 23,000,000. Possible response: I could see that the female population of 23,000,000 was half of the total population of 46,000,000.
 - **B.** The female population of Mexico is 59,000,000. Possible response: I drew a number line starting at 57,000,000 (male population) and used the hopper to hop up to 116,000,000 (total population). The hopper hopped + 50,000,000 then + 9,000,000 to land on 116,000,000. I added the hops to find the female population 50,000,000 + 9,000,000 = 59,000,000.
 - **C.** The total population of Pakistan is 194,000,000. Possible response: I wrote a number sentence adding the male and female populations together to find the total population: 100,000,000 + 94,000,000 = 194,000,000.

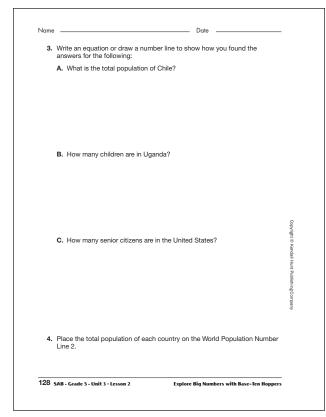
Student Guide - Page 135

13. Using the World Population Number Line 1 in the Student Activity Book:



(Momework)							
1. Find <i>n</i> to make the number sentence true.							
A. $300,000,000 + n + 6,000,000 + 700,000 = 316,700,000$							
B. 7,700,000 = <i>n</i> + 700,000							
C. <i>n</i> + 90,000,000 + 5,000,000 + 200,000 = 7,095,200,000							
 The fifth graders are studying population in their Social Studies class. They are comparing the population of different age groups in countries around the world and have come up with some of the figures for this table. Complete the rest of the table. 2013 International Populations Rounded to the Nearest Hundred Thousand 							
Country	Total Population	Age Group 0–14	Age Group 15–64	Age Group 65+			
Chile		3,600,000	11,900,000	1,700,00			
India	1,220,800,000		798,900,000	69,500,00			
Israel	7,700,000	2,100,000		800,00			
	142,500,000	22,900,000	101,000,000				
Russia			47.000.000	700.00			
Russia Uganda	34,800,000		17,000,000	700,00			
	34,800,000 316,700,000	63,400,000	209,400,000	700,00			

Student Activity Book - Page 127



Student Activity Book - Page 128

Student Activity Book

Working with Big Numbers (SAB pp. 127–129) Homework Questions 1–4

- I. A. 10,000,000
 - **B.** 7,000,000
 - **C.** 7,000,000,000
- 2.

2013 International Populations Rounded to the Nearest Hundred Thousand

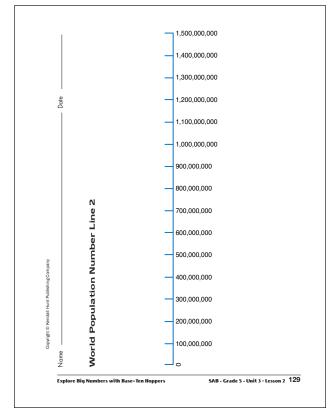
Country	Total Population	Age Group 0–14	Age Group 15–64	Age Group 65+
Chile	17,200,000	3,600,000	11,900,000	1,700,000
India	1,220,800,000	352,400,000	798,900,000	69,500,000
Israel	7,700,000	2,100,000	4,800,000	800,000
Russia	142,500,000	22,900,000	101,000,000	18,600,000
Uganda	34,800,000	17,100,000	17,000,000	700,000
United States	316,700,000	63,400,000	209,400,000	43,900,000
World	7,095,200,000	1,367,000,000	5,149,400,000	578,800,000

3. A. 17,200,000;

3,600,000 + 11,900,000 + 1,700,000 = 17,200,000

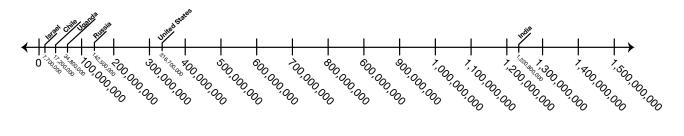
- **B.** 17,100,000; 34,800,000 - 17,000,000 - 700,000 = 17,100,000
- **C.** 43,900,000; 316,700,000 - 63,400,000 - 209,400,000 = 43,900,000

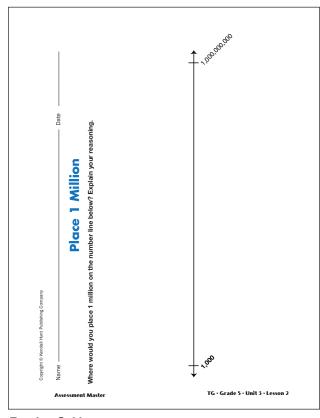
Copyright © Kendall Hunt Publishing Company

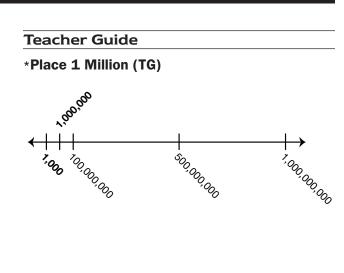


Student Activity Book - Page 129

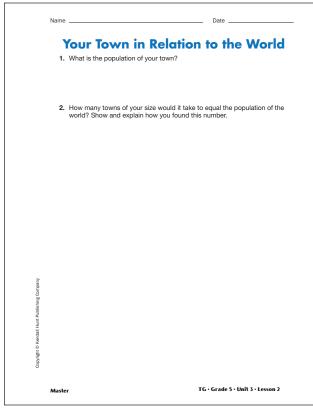
4. Using the World Population Number Line 2 in the *Student Activity Book:*







Teacher Guide



Your Town in Relation to the World (TG) Questions 1–2

- I. Answer will vary.
- 2.* Answer will vary. Find how many towns of your size are in a million. Multiply this number by 1000 to find how many towns are in one billion. Multiply this by 7 to find how many towns are in 7 billion. Then partition 159,800,000 and find out how many towns of your size are in 100,000,000; 50,000,000; 9,000,000; and 800,000 respectively. Add these numbers together to solve the problem.

Teacher Guide

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