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- 6. A. Which state has the smallest population?
- B. What is the population of this state?
- 7. A. Which state has the largest population?
- B. What is the population of this state?
- 8. Which state has a reported population closest to 1 million? How did you
- 9. What is the reported population of Arkansas rounded to the nearest million?
- ✓ Check-In: Questions 10-14
- 10. Put the populations of Arizona, Colorado, and Connecticut in order from
- 11. A. Write the population of Alabama in expanded form.
  - B. Write the population of Florida in expanded form.
- 12. A. Write the population of Connecticut in word form.
- B. Write the population of Delaware in word form.
- 13. Which two states have populations of about 5 million people? How did you
- 14. A. Round the population of California to the nearest 10 million
- B. Round the population of California to the nearest million.

Play the Spin and Read Big Numbers Game in the Student Activity Book to practice reading large numbers correctly

### Represent Large Numbers Using Number Lines

Complete the Population Lines page in the Student Activity Book. Use the number lines on that page to complete Questions 15-18.

- 15. Show the position of each state's population in the 2012 State Populations Table 1 on the appropriate number line. Alaska has been added to the correct number line as an example.
- **16. A.** The population of Arizona is between which two benchmarks? Use these benchmarks to round the population of Arizona to the nearest million.
  - B. Name the two benchmarks that the population of Alabama is between. Use these benchmarks to round the population of Alabama to the nearest 1 million.
  - C. Round the population of Delaware to the nearest hundred thousand. Which two benchmarks did you use?

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Show Big Numbers

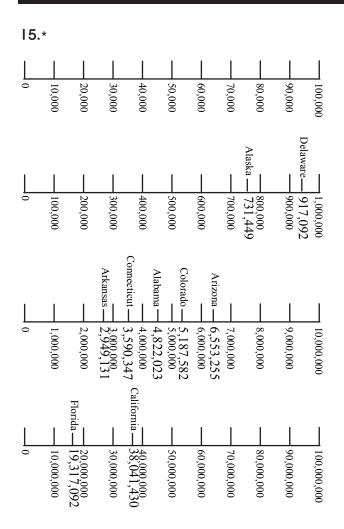
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# Student Guide

### Show Big Numbers (SG pp. 125-127) Ouestions 1-18

- I. Arizona
- **2.** 4,822,023
- **3.** 19,317,568
- **4. A.\*** Florida; Possible response: Florida has a population that is almost 20 million but Alabama is only about 5 million.
  - **B.**\* 4,822,023; 6,553,255; 19,317,568 (Alabama, Arizona; Florida)
- 5. A. Connecticut
  - **B.** Delaware, Arkansas
- **6. A.** Alaska
  - **B.** 731,449
- 7. A. California
  - **B.** 38,041,430
- **8.\*** Delaware; Possible response. I see that it is over 900,000 and that is close to 1 million.
- 9.\* 3 million; Possible response: I looked at the digit in the hundred thousands place and saw that it is a nine. That is very close to ten so I rounded up from 2 million to 3 million.
- **10.** 3,590,347; 5,187,582; 6,553,255 (Connecticut, Colorado, Arizona)
- 11. A. 4,000,000 + 800,000 + 20,000 + 2000 + 20
  - **B.** 10,000,000 + 9,000,000 + 300,000 + 10,000+7000 + 500 + 60 + 8
- 12. A. three million, five hundred ninety thousand, three hundred forty-seven
  - **B.** nine hundred seventeen thousand, ninety-
- **13.** Alabama and Colorado; Possible response: If you round the population of both of these states to the nearest million they will both round to 5,000,000. Alabama is just a little less than 5 million and Colorado is just a little more than 5 million.
- **14. A.** 40,000,000
  - **B.** 38,000,000

<sup>\*</sup>Answers and/or discussion are included in the lesson.



- **16. A.**\* 6,000,000 and 7,000,000; 7,000,000
  - **B.** 4,000,000 and 5,000,000; 5,000,000
  - **C.** 900,000; 900,000 and 1,000,000
- **17. A.**\* 5,000,000; 5,000,000 and 6,000,000
  - **B.**\* 5,200,000; 5,100,000 and 5,200,000
- **18. A.** 20,000,000; 19,000,000 and 20,000,000
  - **B.** 19,000,000; 19,000,000 and 20,000,000

17. A. Round the population of Colorado to the nearest 1 million. What two benchmarks did you use? B. Round the population of Colorado to the nearest hundred thousand. What two benchmarks did you use? 18. A. Round the population of Florida to the nearest ten million. Name the two benchmarks you used. B. Round the population of Florida to the nearest million. What two benchmarks did you use? ( Momework ) 2012 State Populations Table 2 Nickname Population Peach State 9,919,945 Georgia Hawaii Aloha State 1,392,313 Idaho Gem State 1.595.728 12,875,255 Illinois Prairie State 6,537,334 Hawkeve State 3.074.186 Kansas Sunflower State 2.885.905 Kentucky Blue Grass State 4,380,415 4.601.893 Louisiana Pelican State Use the 2012 State Population Table 2 to answer Questions 1-5. 1. A. Read each number aloud. B. Put the populations of Georgia, Hawaii, Idaho, Illinois, and Indiana in order from the smallest to the largest. 2. Use expanded form to write the numbers that have a 3 or 8 in the 10,0003. Use word form to write the numbers for the two states that have the reported populations closest to 3 million.

4. Is the population of Kansas closer to 2,800,000 or 2,900,000?

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<sup>\*</sup>Answers and/or discussion are included in the lesson.

## Answer Key • Lesson 1: Show Big Numbers

- 17. A. Round the population of Colorado to the nearest 1 million. What two benchmarks did you use?
  - B. Round the population of Colorado to the nearest hundred thousand. What two benchmarks did you use?
- 18. A. Round the population of Florida to the nearest ten million. Name the two benchmarks you used
  - B. Round the population of Florida to the nearest million. What two benchmarks did you use?

# ( Momework )

2012 State Populations Table 2

State	Nickname	Population
Georgia	Peach State	9,919,945
Hawaii	Aloha State	1,392,313
Idaho	Gem State	1,595,728
Illinois	Prairie State	12,875,255
Indiana	Hoosier State	6,537,334
lowa	Hawkeye State	3,074,186
Kansas	Sunflower State	2,885,905
Kentucky	Blue Grass State	4,380,415
Louisiana	Pelican State	4,601,893

Use the 2012 State Population Table 2 to answer Questions 1-5.

- 1. A. Read each number aloud.
  - **B.** Put the populations of Georgia, Hawaii, Idaho, Illinois, and Indiana in order from the smallest to the largest.
- 2. Use expanded form to write the numbers that have a 3 or 8 in the 10.000
- 3. Use word form to write the numbers for the two states that have the reported populations closest to 3 million.
- 4. Is the population of Kansas closer to 2,800,000 or 2,900,000?

Show Big Numbers

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- 5. Is the population of Illinois closer to 12.876.000 or 12.875.000?
- 6. Maine has a population of one-million, three-hundred twenty-nine thousand, one hundred ninety-two. Write that number in standard form.
- Use a ruler to draw a number line starting at 0 counting by 5,000,000 up to 50,000,000.



8. Use a ruler to draw a number line starting at 50,000,000 and counting by 50,000,000 up to 550,000,000.

50,000,000 200,000,000 250,000,000 300,000,000 350,000,000 400,000,000 450,000,000 500,000,000

- Compare the population facts for a fifth-grade student at the Tarver School in the United States and the Karachi American School in Pakistan. Use the two number lines you drew in Questions 7 and 8 and place the population numbers on the appropriate number line for each school.
  - A. city

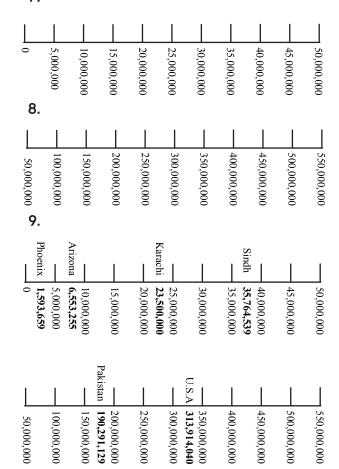
C. country	C-hh	T				
Name of Your School: Tarver City: Phoenix State: Arizona Country: United States						
Class	5™ Grade	School	City	State	Country	
25	130	772	1,593,659	6,553,255	313,914,040	
City: Kara	Name of Your School: Karachi American School City: Karachi Province: Sindh Country: Pakistan					
Class	5™ Grade	School	City	Province	Country	
32	32	357	23,500,000	35,764,539	190,291,129	

### Homework (SG pp. 127-128) **Ouestions 1-9**

- I. Hawaii –1,392,313; Idaho 1,595,728; Indiana – 6,537,334; Georgia – 9,919,945; Illinois -12,875,255
- **2.** Indiana -6.537.334 = 6.000.000 + 500.000 +30,000 + 7,000 + 300 + 30 + 4Kansas - 2,885,905 = 2,000,000 + 800,000 +80,000 + 5,000 + 900 + 5Kentucky -4,380,415 = 4,000,000 + 300,000 +80.000 + 400 + 10 + 5
- **3.** Iowa three million, seventy-four thousand, one hundred eighty-six Kansas – two million, eight hundred

eighty-five thousand, nine hundred five

- **4.** 2,900,000
- **5.** 12,875,000
- **6.** 1,329,192
- 7.



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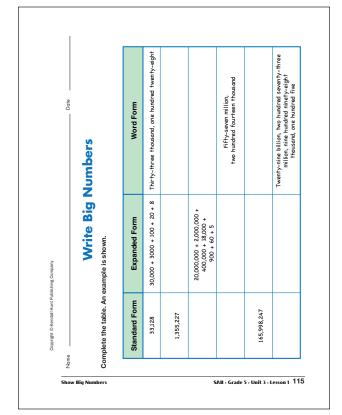
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### **Student Activity Book**

\*Write Big Numbers (SAB p. 115)

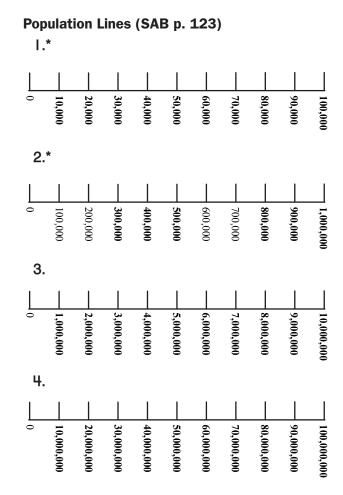
Standard Form	Expanded Form	Word Form
33,128	30,000 + 3000 + 100 + 20 + 8	Thirty-three thousand, one hundred twenty-eight
1,355,227	1,000,000 + 300,000 + 50,000 + 5000 + 200 + 20 + 7	one million, three hundred fifty-five thousand, two hundred twenty-seven
22,418,965	20,000,000 + 2,000,000 + 400,000 + 10,000 + 8000 + 900 + 60 + 5	twenty-two million, four hundred eighteen thousand, nine hundred sixty-five
57,214,000	50,000,000 + 7,000,000 + 200,000 + 10,000 + 4000	Fifty-seven million, two hundred fourteen thousand
165,998,247	100,000,000 + 60,000,000 + 5,000,000 + 900,000 + 90,000 + 90,000 +	one hundred sixty-five million, nine hundred ninety-eight thousand, two hundred forty-seven
29,273,998,105	20,000,000,000 + 9,000,000 + 9,000,000 + 200,000,000 + 3,000,000 + 900,000 + 90,000	Twenty-nine billion, two hundred seventy-three million, nine hundred ninety-eight thousand, one hundred five



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<sup>\*</sup>Answers and/or discussion are included in the lesson.

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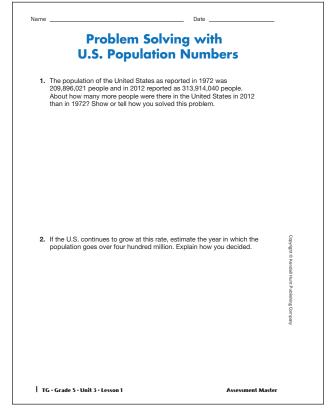
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### **Teacher Guide**

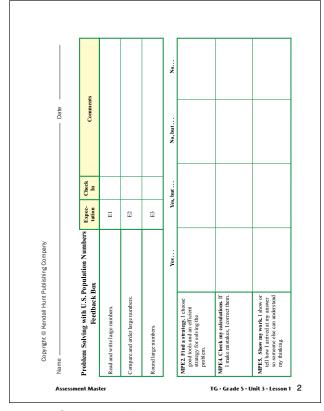
# Problem Solving with U.S. Population Numbers (TG p. 1–2) Questions 1–2

- I. Answers will vary. Students should use rounding to see that in 1972 the population was about 200,000,000 and in 2012 it was about 300,000,000. So there are about 100,000,000 more people in 2012 than in 2013.
- 2.\* Answers will vary. In the forty years from 1972 to 2012, the population of the U.S. increased by about 100,000,000. The population still has to increase by about another 100,000,000 to reach four hundred million. At the same rate of growth, it will take about another 40 years to increase by another 100,000,000. Forty years after 2012 is 2052.

Note: These populations were estimated by the U.S. Census as of July 1, 2012.



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<sup>\*</sup>Answers and/or discussion are included in the lesson.