**Lesson 6 Homework Practice**

***Scientific Notation***

**Write each n2umber in standard form.**

 **1.** 9.03 × $10^{2}$ **2.** 7.89 × $10^{3}$ **3.** 4.115 × $10^{5}$ **4.** 3.201 × $10^{6}$

 **5.** 5.1 × $10^{-2}$ **6.** 7.7 × $10^{-5}$ **7.** 3.85 × $10^{-4}$ **8.** 1.04 × $10^{-3}$

**Write each number in scientific notation.**

 **9.** 4,400 **10.** 75,000 **11.** 69,900,000 **12.** 575,000,000

 **13.** 0.084 **14.** 0.0099 **15.** 0.000000515 **16.** 0.0000307

 **17.** Which number is greater: $3.5×10^{4}$ or $2.1×10^{6}$?

 **18.** Which number is less: $7.2×10^{7}$ or $9.9×10^{5}$?

|  |  |
| --- | --- |
| **Country** | **Population** |
| Australia | $$2×10^{7}$$ |
| Brazil | $$1.9×10^{8}$$ |
| Egypt | $$7.7×10^{7}$$ |
| Luxembourg | $$4.7×10^{5}$$ |
| Singapore | $$4.4×10^{6}$$ |

 **19. POPULATION** The table lists the populations of five countries. List the countries from least to greatest population.

 **20. SOLAR SYSTEM** Pluto is 3.67 ×$10^{9}$ miles from the Sun. Write this number in standard form.

 **21. MEASUREMENT** One centimeter is equal to about 0.0000062 mile. Write this number in scientific notation.

 **22. DISASTERS** In 2005, Hurricane Katrina caused over $125 billion in damage in the southern United States. Write $125 billion in scientific notation.