Name _____ Date _____

10.6 Practice B

Write the number in scientific notation.

1. 0.000085

2. 410,000,000

3. 0.0143

4. 134,750,000,000

5. 7,000,000,000,000,000

6. 0.00000000000199

7. 52,400,000,000,000

8. 0.00000006133

Order the numbers from least to greatest.

9. 4.15×10^{14}, 5.4×10^{14}, 4.5×10^{14}

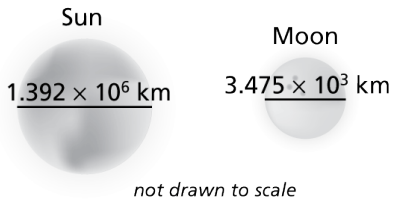
10. 2.8×10^{-20}, 7.22×10^{-22}, 3.11×10^{-19}

11. 4.118×10^{-3}, 4.1×10^{-5}, 4.181×10^{-5}

12. 6.7×10^{-32}, 3.72×10^{32}, 6.17×10^{-32}

13. The atomic mass of carbon-12 is 0.000000000000000000000001992 kilogram. Write this number in scientific notation.

14. Approximately how many moons would be needed side-by-side to span across the Sun?



15. Most golf balls have about 250 to 450 dimples. The record holder is a ball with 1070 dimples.

a. Write 1070 in scientific notation.

b. In a recent year, it was estimated that 540,000,000 golf balls were sold. Using an average of 350 dimples, how many dimples were on the golf balls sold in that year? Write your answer in scientific notation.

16. The population of a country is about 6,940,000.

a. Write 6,940,000 in scientific notation.

b. There are about 17,251 people per square mile in the country. What is the area of the country (in square miles)? Round your answer to the nearest whole number.

Order the numbers from least to greatest.

17. $5\frac{3}{8}$, 0.00538, 0.53%, $\frac{538}{1000}$

18. 8.19×10^{-2}, $\frac{270}{330}$, 0.0082

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