Writing and Comparing Numbers in Scientific Notation

Writing and Comparing Numbers in Scientific Notation

Name	Date
Directions: Complete the following	ng exercises and problems.
Rewrite in scientific notation.	*
1. 0.000357	2. 0.00127
For each problem below, place the	proper sign (<, >, =) in the space provided.
3. $5{,}100$ 5.1×10^3	4. 4.3×10^{-4} 4.32 × 10^{-4}
5. 7.8×10^{-7} 7.8×10^{-8}	6. 3.2×10^{-10} 3.2×10^{10}

7. Suppose the table below displays data for the top 10 prime-time television shows for a given week in the year. Complete the empty column in the table by converting the number of households into scientific notation.

Rank	Number of Households	Number of Households (written in scientific notation
1	16,600,000	
2	14,400,000	
3	12,400,000	
4	11,800,000	
5	11,400,000	
6	11,200,000	
7	11,000,000	22
8	10.900,000	
9	10,500,000	
10	10,300,000	

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Name _.	

Date_____

Comparing Scientific Notation Worksheet

Homeroom____

1. Place the following numbers in order from least to greatest:

 7.8×10^{6} , 5.1×10^{4} , 1.25×10^{5} , 4.09×10^{4}

6. Which of these numbers is the least?

- a. 3.5×10^7
- b. 3×10^7

 5×10^7

d. 5.5×10^7

2. Which of the following numbers is the least?

- a. 7×10^8
- b. 7×10^9
- c. 7.1×10^8
- d. 7.1 x 10⁹

3. Which number is the greatest?

- a. 5.25 x 10⁵
- b. 5.55×10^5
- c. 2.55×10^5
- d. 5×10^5

4. The diameter of the planet Mercury is 4.87×10^3 kilometers. The diameter of the planet Venus is 1.21×10^4 kilometers. The diameter of Earth is 1.28×10^4 kilometers. The diameter of Mars is 6.79×10^3 kilometers. Which planet has the smallest diameter?

- a. Mercury
- b. Venus
- c. Earth
- d. Mars

5. Order the following from greatest to least:

 5×10^3 , 3.2×10^8 , 1.2×10^8 , 7×10^5

7. Which of these numbers is the greatest?

- a. 9×10^9
- b. 9×10^8
- c. 8×10^9
- d. 8×10^8

8. Order the following from least to greatest:

 6.8×10^6 , 6×10^6 , 6.6×10^6 , 6.1×10^6

9. Which of these numbers is the greatest?

- a. 5.406×10^8
- b. 5.604 x 10⁹
- c. 5.504×10^7
- d. 6.504×10^8

10. Which of these numbers is the least?

- a. 9×10^4
- b. 1.2×10^5
- c. 3.01×10^9
- d. 1.901 x 10⁴