

Name \_\_\_\_\_

Date \_\_\_\_\_

Comparing Scientific Notation Worksheet

Homeroom \_\_\_\_\_

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

$7.8 \times 10^6$ ,  $5.1 \times 10^4$ ,  $1.25 \times 10^5$ ,  $4.09 \times 10^4$

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6. Which of these numbers is the least?

- a.  $3.5 \times 10^7$                       b.  $3 \times 10^7$   
c.  $5 \times 10^7$                          d.  $5.5 \times 10^7$

2. Which of the following numbers is the least?

- a.  $7 \times 10^8$                       b.  $7 \times 10^9$   
c.  $7.1 \times 10^8$                     d.  $7.1 \times 10^9$

7. Which of these numbers is the greatest?

- a.  $9 \times 10^9$                       b.  $9 \times 10^8$   
c.  $8 \times 10^9$                       d.  $8 \times 10^8$

3. Which number is the greatest?

- a.  $5.25 \times 10^5$                     b.  $5.55 \times 10^5$   
c.  $2.55 \times 10^5$                     d.  $5 \times 10^5$

8. Order the following from least to greatest:

$6.8 \times 10^6$ ,  $6 \times 10^6$ ,  $6.6 \times 10^6$ ,  $6.1 \times 10^6$

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

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

9. Which of these numbers is the greatest?

- a.  $5.406 \times 10^8$                     b.  $5.604 \times 10^9$   
c.  $5.504 \times 10^7$                     d.  $6.504 \times 10^8$

5. Order the following from greatest to least:

$5 \times 10^3$ ,  $3.2 \times 10^8$ ,  $1.2 \times 10^8$ ,  $7 \times 10^5$

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10. Which of these numbers is the least?

- a.  $9 \times 10^4$                          b.  $1.2 \times 10^5$   
c.  $3.01 \times 10^9$                       d.  $1.901 \times 10^4$