## **Exponents Print Activity**

\*It is recommended that the print activity be completed <u>before</u> beginning the video interactive.

1. For each set of numbers, circle the numbers that are **positive** and then identify the largest number.

a. 5, -1, 4, 78, -23, 45

Largest number = \_\_\_\_\_

b. 1.3, -4.5, 6.4, 34.1, -78.5

Largest number = \_\_\_\_\_

2. For each set of numbers, circle the numbers that are **negative** and then identify the smallest number.

a. -45, 64, 45, -36, -10

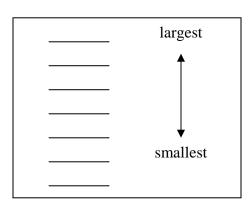
Smallest number = \_\_\_\_\_

b. 45.8, -3.4, -7.4, 46.1, -1.2

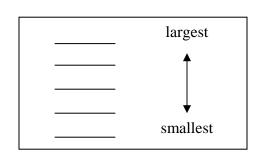
Smallest number = \_\_\_\_\_

3. Arrange each of the number sets in order from largest to smallest:.

a. -3, 11, -6, 8, -4, 5, -1

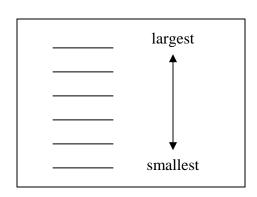


b. 0.6, 0.4, 0.8, 0.1, 0.3



c. -0.6, -0.4, -0.8, -0.1, -0.3

d. 8.5, -0.45, 2.5, -8.5, 0.45, -2.5



4. Circle the largest value in each pair.

a. 
$$4.2 \times 10^{1}$$

or 
$$4.2 \times 10^2$$

b. 
$$2.6 \times 10^4$$

or 
$$7.1 \times 10^2$$

c. 
$$5.7 \times 10^3$$

or 
$$9.3 \times 10^2$$

HINT If the numeric value and the exponent are both positive as the exponent of 10 gets larger, the value gets larger.

5. Circle the **largest value** in each pair.

a. 
$$-4.8 \times 10^3$$

or 
$$-4.8 \times 10^4$$

b. 
$$-9.2 \times 10^2$$

or 
$$-7.8 \times 10^2$$

c. 
$$-1.5 \times 10^3$$

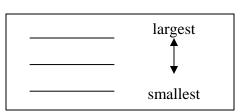
or 
$$-6.5 \times 10^2$$

- HINT If the numeric value is **negative** and the exponent are positive as the exponent of 10 gets larger, the value gets smaller.
- 6. Arrange each of the values in order from largest to smallest.

a. 
$$-4.5 \times 10^3$$
  
 $1.7 \times 10^3$ 

$$-3.3 \times 10^{1}$$

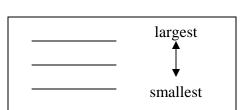
$$-3.3 \times 10^{1}$$



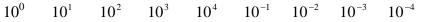
b. 
$$-6.7 \times 10^2$$

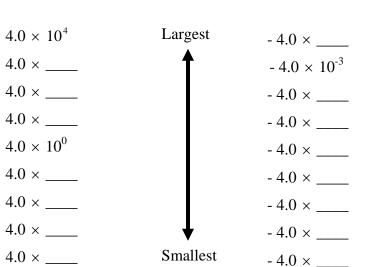
$$-2.3 \times 10^{3}$$

$$-5.5 \times 10^{1}$$



7. Order the values in scientific notation from largest to smallest using the powers of 10



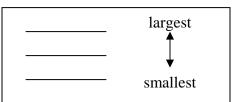


8. Arrange the values in order from largest to smallest, and then complete the following statement below.

$$5.0 \times 10^{-1}$$

$$5.0 \times 10^{-3}$$

$$5.0 \times 10^{-2}$$



9. Circle the **larger value** in each pair, and complete the following statements.

a. i. 
$$5.2 \times 10^{-1}$$
,  $2.5 \times 10^{-2}$ 

ii. 
$$8.8 \times 10^{-3}$$
,  $4.3 \times 10^{-2}$ 

iii. 
$$1.4 \times 10^{-2}$$
,  $7.1 \times 10^{-2}$ 

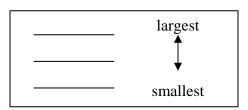
b. Each value in the above question has a \_\_\_\_\_ numeric value and a \_\_\_\_\_ exponent of 10. (positive/negative)

c. Each value in the above question represents a number between 0 and  $\frac{1}{(+1/-1)}$ .

10. Arrange the values in order from largest to smallest, and then complete the statement.

$$-2.0 \times 10^{-2}$$
  
 $-2.0 \times 10^{-1}$ 

$$-2.0 \times 10^{-3}$$



As the exponent of 10 increases, the value of the number \_\_\_\_\_\_ . (increases/decreases) .

11. Circle the **larger value** in each pair, and complete the statements.

a. i. 
$$-4.5 \times 10^{-2}$$
,  $-1.5 \times 10^{-3}$ 

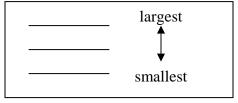
ii. 
$$-5.0 \times 10^{-1}$$
,  $-4.7 \times 10^{-2}$ 

iii. 
$$-1.5 \times 10^{-2}$$
,  $-4.6 \times 10^{-2}$ 

- b. Each value in the above question has a \_\_\_\_\_ numeric value and a \_\_\_\_\_ exponent of 10. (positive/negative)
- c. Each value in the above question represents a number between 0 and  $\frac{1}{(+1/-1)}$ .
- 12. Arrange each of the values in order from largest to smallest.

a. 
$$-2.3 \times 10^3$$
  
 $5.6 \times 10^{-1}$ 

$$-1.7 \times 10^{-3}$$



b. 
$$-4.3 \times 10^{-2}$$
  
 $-1.5 \times 10^{-3}$   
 $7.4 \times 10^{-3}$ 

