

Exponents Print Activity

**It is recommended that the print activity be completed before 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

_____ _____ _____ _____ _____ _____ _____	largest  smallest
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b. 0.6, 0.4, 0.8, 0.1, 0.3

_____ _____ _____ _____ _____	largest  smallest
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c. -0.6, -0.4, -0.8, -0.1, -0.3

_____ _____ _____ _____ _____	largest  smallest
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- d. 8.5, -0.45, 2.5, -8.5, 0.45, -2.5

_____	largest
_____	↑
_____	↓
_____	smallest

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

a. 4.2×10^1 or 4.2×10^2

b. 2.6×10^4 or 7.1×10^2

c. 5.7×10^3 or 9.3×10^2

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. -4.8×10^3 or -4.8×10^4

b. -9.2×10^2 or -7.8×10^2

c. -1.5×10^3 or -6.5×10^2

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. -4.5×10^3
 1.7×10^3
 -3.3×10^1

_____	largest
_____	↑
_____	↓
_____	smallest

b. -6.7×10^2
 -2.3×10^3
 -5.5×10^1

_____	largest
_____	↑
_____	↓
_____	smallest

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

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

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

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

_____	largest
_____	↕
_____	smallest

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. -4.5×10^{-2} , -1.5×10^{-3}
 ii. -5.0×10^{-1} , -4.7×10^{-2}
 iii. -1.5×10^{-2} , -4.6×10^{-2}

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

- c. Each value in the above question represents a number between 0 and _____ .
 (+1/ -1)

12. Arrange each of the values in order from largest to smallest.

a. -2.3×10^3
 5.6×10^{-1}
 -1.7×10^{-3}

_____	largest
_____	↕
_____	smallest

b. -4.3×10^{-2}
 -1.5×10^{-3}
 7.4×10^{-3}

_____	largest
_____	↕
_____	smallest