

RSCS

Class: _____

Name: _____

Date: _____

Comparing Numbers in Scientific Notation Homework

1) Which of the following expressions is equivalent to 5,710,900?

A 5.7109×10^{-6}

B 57109×10^2

C 5.7109×10^3

D 5.7109×10^6

2)

The average distance from Pluto to the Sun is about 6×10^9 kilometers. The average distance from Mars to the Sun is 2×10^8 kilometers. The average distance from Pluto to the Sun is about how many times as great as the average distance from Mars to the Sun?

3)

Last year a business earned 4.1×10^6 dollars in income. This year the business earned 2.05×10^8 dollars in income. Which *best* describes how this year's earnings compare to last year's earnings?

A This year the business earned about 0.5 times as much as it did last year.

B This year the business earned about 2 times as much as it did last year.

C This year the business earned about 50 times as much as it did last year.

D This year the business earned about 100 times as much as it did last year.

4)

Write the following numbers in order from *least* to *greatest*.

$$5 \times 10^{-6}$$

$$-9 \times 10^{-3}$$

$$-0.0000002$$

$$0.00007$$

Least \longrightarrow Greatest

5)

The length of a city block running north to south in New York City is about 5×10^{-2} miles. The distance from New York City to Mumbai, India, is about 7.5×10^3 miles. The distance from New York City to Mumbai is about how many times the length of a New York City north-south block?

Show your work.