

Homework Questions-

$$\textcircled{32} \quad \frac{78t^{-5}}{2^{-1}m^2} = \frac{7t^{-5}}{2^{-1}m^2} = \frac{7 \cdot 2^1}{m^2 t^5}$$

$$\frac{14}{m^2 t^5}$$

$$\textcircled{20} \quad \frac{1}{c^{-1}} = c^1 = c$$

$$\textcircled{21} \quad \frac{5^{-2}}{p} = \frac{1}{5^2 p} = \frac{1}{25p}$$

$$(-5)^{-2} \quad -5^{-2}$$

$$\frac{1}{(-5)^2} \quad \frac{1}{-5^2}$$

$$\frac{1}{(-5)(-5)} \quad \frac{1}{-5 \cdot 5}$$

$$\frac{1}{25} \quad -\frac{1}{25}$$

8.2 Scientific Notation

A number written as the product of 2 factors in the form

$$a \times 10^n$$

Where n is an integer and $1 \leq a < 10$

$$3.2 \times 10^3$$

$$2.4 \times 10^{-5}$$

Recognizing Scientific Notation

$.84 \times 10^{-3}$ No .84

2.5×10^{-4} yes

Write 56,900,000 using scientific notation.

$$5.69 \times 10^7$$

Write 2.0×10^{-11} in standard notation.

$$\underbrace{\hspace{10em}}_{20} \\ .0000000000020$$

Order the numbers from least to greatest

$$.052 \times 10^7 \quad 5.12 \times 10^5 \quad 53.2 \times 10^1 \quad 534$$

$$5.2 \times 10^5 \quad 5.32 \times 10^2 \quad 5.34 \times 10^2$$

(4) (3) (1) (2)

Write each number in scientific notation.

$$7(4 \times 10^5)$$

$$28. \times 10^5 = 2.8 \times 10^6$$

$$.5(1.2 \times 10^{-3})$$

$$.6 \times 10^{-3}$$

$$6.0 \times 10^{-4}$$

decimal \rightarrow sub
 \leftarrow add

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