

7th Grade Lesson 69

- I can combine powers of 10 to write numbers in scientific notation.

$$4600 \times 10^5$$

$$4600$$

$$4.6 \times 10^3$$

$$4.6 \times 10^3 \times 10^5$$

$$(10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10 \cdot 10)$$

$$\rightarrow 4.6 \times 10^8$$

Write 25×10^{-5} in scientific notation.

$$\begin{array}{l} \swarrow \quad \searrow \\ 2.5 \times 10^1 \times 10^{-5} \\ 2.5 \times 10^{-4} \end{array}$$

Write 0.25×10^4 in scientific notation.

$$\begin{array}{l} 2.5 \times 10^1 \times 10^4 \\ \textcircled{2.5 \times 10^3} \end{array}$$

Write each number in scientific notation.

$$\begin{array}{l} 0.16 \times 10^6 \\ 1.6 \times 10^{-1} \times 10^6 \\ 1.6 \times 10^5 \end{array}$$

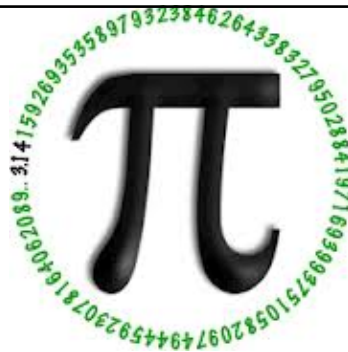
$$\begin{array}{l} 14.4 \times 10^8 \\ 1.44 \times 10^1 \times 10^8 \\ 1.44 \times 10^9 \end{array}$$

$$\begin{array}{l} 24 \times 10^{-7} \\ 2.4 \times 10^1 \times 10^{-7} \end{array}$$

$$\begin{array}{l} 0.75 \times 10^{-8} \\ 7.5 \times 10^{-1} \times 10^{-8} \end{array}$$

$$2.4 \times 10^{-6}$$

$$7.5 \times 10^{-9}$$



Assignment

Problem Set 69

***A/B Optional:** #2-7, 9-11, 15, 18-20, 26, 29