

## Powers of 10

$$2^5 = 32$$

$$\begin{array}{l} 10^1 = 10 \quad 10^1 = 10 \\ \quad \quad \quad 10^2 = 100 \\ 10^0 = 0 \quad 10^3 = 1000 \\ \quad \quad \quad 10^4 = 10000 \\ 10^{-1} \xrightarrow{\hspace{10em}} \frac{1}{10} \\ 10^2 \quad \rightarrow .1 = \frac{1}{10} \\ \quad \quad \rightarrow .01 = \frac{1}{100} \\ \quad \quad \rightarrow .001 = \frac{1}{1000} \\ \quad \quad \rightarrow .0001 = \frac{1}{10000} \end{array}$$

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## Mult. by Powers of 10

$$\begin{array}{l} 571 \times 10^1 = 5710 \\ \quad \times 10^2 = 57100 \end{array}$$

$$\times 10^6 = 571000000$$

Dividing by Powers  
of 10  
move to left

$$571 \div 10 \text{ same}$$

$$\frac{571}{1} \cdot \frac{1}{10} = \frac{571}{10}$$

$$571 \times .1 = \frac{571}{10} = \textcircled{57.1}$$

57↓

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$$\begin{array}{r}
 2^3 \\
 = \\
 8
 \end{array}
 \begin{array}{r}
 2^2 \\
 = \\
 4
 \end{array}
 \begin{array}{r}
 2^1 \\
 = \\
 2
 \end{array}
 \begin{array}{r}
 2^0 \\
 = \\
 1
 \end{array}
 \begin{array}{r}
 2^{-1} \\
 = \\
 \frac{1}{2}
 \end{array}
 \begin{array}{r}
 2^{-2} \\
 = \\
 \frac{1}{4}
 \end{array}
 \begin{array}{r}
 2^{-3} \\
 = \\
 \frac{1}{8}
 \end{array}
 \begin{array}{r}
 2^{-4} \\
 = \\
 \frac{1}{16}
 \end{array}
 \begin{array}{r}
 2^{-5} \\
 = \\
 \frac{1}{32}
 \end{array}$$

$$\begin{array}{r}
 5^1 \\
 = \\
 5
 \end{array}
 \begin{array}{r}
 5^2 \\
 = \\
 25
 \end{array}
 \begin{array}{r}
 5^{-1} \\
 = \\
 \frac{1}{5}
 \end{array}
 \begin{array}{r}
 5^{-2} \\
 = \\
 \frac{1}{25}
 \end{array}$$