

$$\begin{aligned}3.5 \div 1 &= 3.5 \\3.5 \div 10 &= .35 \\3.5 \div 100 &= .035 \\3.5 \div 1000 &= .0035\end{aligned}$$

$$\begin{aligned}.7 \div 1 &= .7 \\\cdot 7 \div 10 &= .07 \\\cdot 7 \div 100 &= .007 \\\cdot 7 \div 1000 &= .0007\end{aligned}$$

When you divide by a power greater than one,  
• the answer will be smaller  
• you move the decimal point to the left because it's smaller.

$$\begin{array}{r}52 \div 0.01 \\ \hline 52 = .52\end{array}$$

$$\begin{aligned}3.5 \div .001 &= 3,500 \\3.5 \div .01 &= 350 \\3.5 \div .1 &= 35 \\3.5 \div 1 &= 3.5\end{aligned}$$

$$\begin{aligned}.7 \div .001 &= 700 \\\cdot 7 \div .01 &= 70 \\\cdot 7 \div .1 &= 7 \\\cdot 7 \div 1 &= .7\end{aligned}$$

When you divide by a power of 10 less than one,  
• the answer will be bigger  
• you move the decimal point to the right because it's bigger

$$\begin{array}{r}38 \div 1000 \\ \hline .038\end{array}$$

$$\begin{array}{r}4.03 \div 0.1 \\ \hline 40.3\end{array}$$

$$\begin{array}{r}24 \div 0.01 \\ \hline 2400\end{array}$$