



Dividing Decimals

$$0.036 \div 0.8 = \frac{0.036}{0.8} = 0.8 \overline{)0.036}$$

To solve:

1. Move the decimal point in the divisor.
one place so that it is a whole number.
0.8 becomes 8
2. Move the decimal point in the dividend (0.036)
the same number of places as the divisor.
0.036 becomes 0.36
3. Place the decimal in the quotient directly above the
decimal in 0.36
4. Divide as usual, adding zeros to the end of the
dividend as necessary until there is a zero remainder.

$$\begin{array}{r} 0.045 \\ 8 \overline{)0.360} \\ \underline{-0} \\ 03 \\ \underline{-0} \\ 36 \\ \underline{-32} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

To check: Multiply the divisor by the quotient. The answer should equal the dividend.

$$\begin{array}{r} 0.045 \\ \times 0.8 \\ \hline 0.0360 \end{array}$$

move decimal 4 places

1. Multiply as usual.
2. Count the number of decimal places in each factor.
3. Start at the far right of the answer and move the required number
of decimal places to the left.



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