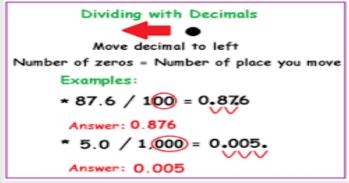
3.2 Divide Decimals by 10, 100, and 1000

You can follow these steps to quickly divide a decimal by 10, 100, or 1000:

- 1.) Count the number of zeros in the divisor.
- 2.) Move the decimal point to the left one place in the dividend for each zero in the divisor.
 - Write zeros in the quotient as needed.



Example: Find the quotients.

0.252

Example: Find the unknown value for each problem.

- 7.) 4.07 is the dividend and 0.0407 is the quotient. What is the divisor? $4.07 \div 100 = 0.0407$
- 8.) 100 is the divisor and 56.7 is the quotient. What is the dividend? $5070 \div 100 = 56.7$
- 9.) 14.8 is the dividend and 1.48 is the quotient. What is the divisor? $+8 \div 10 = 1.48$

10.) Charlotte buys a 9.14 m roll of canvas to paint watercolors and cuts it into 10 equal sections. What is the length of each section?

11.) There are 1000 millimeters (mm) in 1 meter (m). A dime has a thickness of 1 mm. How tall (in meters) is a stack of 8775 dimes?