## **Dividing Decimals**

When you divide by a decimal, you need to rewrite the dividend and the divisor so that you are dividing by a whole number.

Find  $2.48 \div 0.8$ .

Step 1: Estimate. Use compatible numbers.

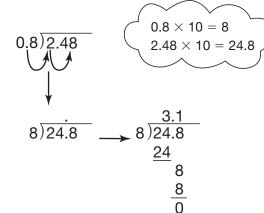
**Step 2:** Make the divisor a whole number. Multiply the divisor AND the dividend by the same power of 10.

Place the decimal in the quotient.

**Step 3:** Divide as you would with whole numbers. Remember that sometimes you may need to annex zeros to complete your division.

**Step 4:** Compare the quotient with your estimate.





Since 3.1 is close to 3, the answer checks.

Find each quotient.

**1.** 0.2)1.5

Estimate:

Multiply dividend and divisor by what power of 10?

Place the decimal point in the quotient.

Divide. How many zeros do you need to annex?

Compare the quotient to your estimate. Is the answer reasonable?

**2.** 0.6)0.36

**3.** 0.4)9.6

**5. Draw a Picture** Fernando used tenths grids to draw this picture showing  $1.6 \div 0.4 = 4$ . Draw a picture to show  $1.8 \div 0.6$ . Write the quotient.

**4.** 0.75)0.3

