## Dividing a Decimal by a Decimal

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  $4.96 \div 0.8$ .

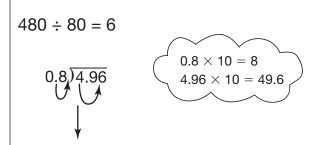
**Step 1:** Estimate. Use compatible numbers.

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

Place the decimal point 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.



Because 6.2 is close to 6, the answer checks.

Find each quotient.

**1.** 0.02)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.** 0.06)0.36
- **3.** 0.04)9.6

- **4.** 0.75)0.03
- **5.** 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.