## 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 $2.48 \div 0.8$.

$$
240 \div 80=3
$$

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. $0 . 2 \longdiv { 1 . 5 }$

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? $\qquad$
2. $0 . 6 \longdiv { 0 . 3 6 }$
3. $0 . 4 \longdiv { 9 . 6 }$
4. $0 . 7 5 \longdiv { 0 . 3 }$
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.


