$\qquad$

## 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.

$$
480 \div 80=6
$$


$8 \longdiv { 4 9 . 6 }$ $\qquad$ 8 $\begin{array}{r}49.6 \\ \hline\end{array}$ $\frac{48}{16}$

$$
\frac{16}{0}
$$

Because 6.2 is close to 6 , the answer checks.

Find each quotient.

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

Estimate:
Multiply dividend and divisor by what power of 10 ? $\qquad$
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. $0 . 0 6 \longdiv { 0 . 3 6 }$
3. $0 . 0 4 \longdiv { 9 . 6 }$
4. $0 . 7 5 \longdiv { 0 . 0 3 }$
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.


