

Dividing by Decimals



For Problems 1 and 2:

- Write an equivalent division problem that has a whole-number divisor. Be sure to multiply the dividend and the divisor by the same number.
- Make an estimate for your equivalent problem.
- Divide as if the dividend were a whole number to solve your equivalent problem.
- Use your estimate to place the decimal point.
- Complete the number sentences to show the answers to the equivalent problem and the original problem. **Sample estimates given.**

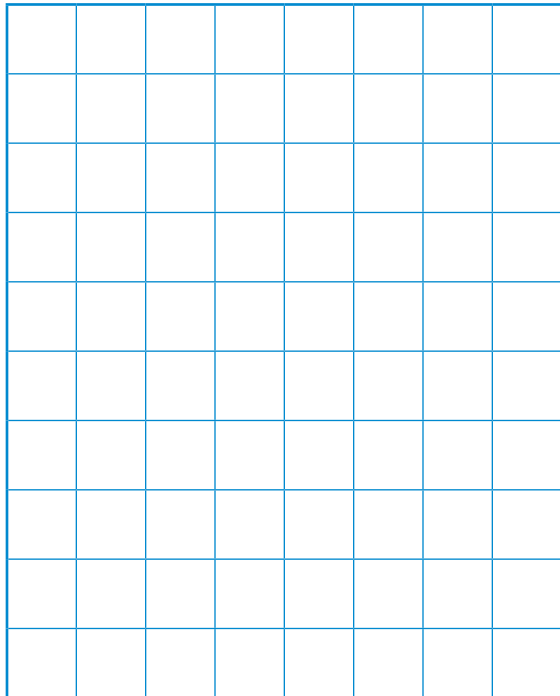
1 $2.79 \div 0.9 = ?$

Equivalent problem:

$$\underline{27.9 \div 9 = ?}$$

Estimate:

$$\underline{28 \div 10 = 2.8}$$



Equivalent problem with answer:

$$\underline{27.9 \div 9 = 3.1}$$

$$2.79 \div 0.9 = \underline{3.1}$$

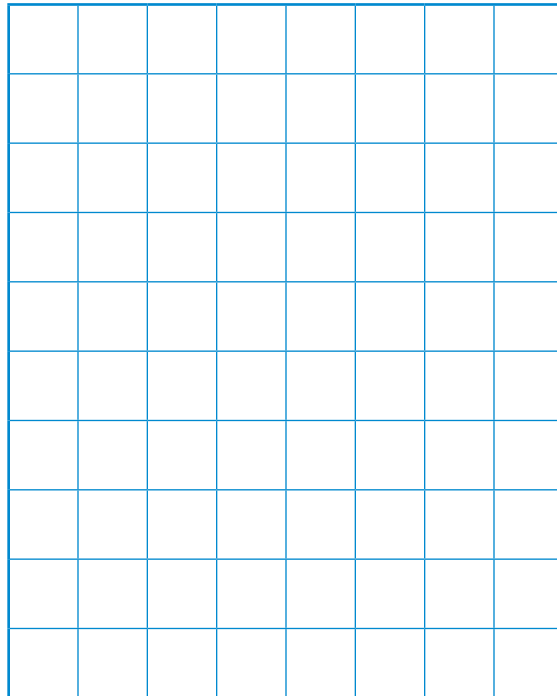
2 $85.4 \div 0.14 = ?$

Equivalent problem:

$$\underline{8,540 \div 14 = ?}$$

Estimate:

$$\underline{8,500 \div 10 = 850}$$



Equivalent problem with answer:

$$\underline{8,540 \div 14 = 610}$$

$$85.4 \div 0.14 = \underline{610}$$