Reteach

Divide Decimals by Decimals

260

-2600

When you divide a decimal by a decimal, multiply both the divisor and the dividend by the same power of ten. Then divide as with whole numbers.

Example 1 Find $10.14 \div 5.2$.

Estimate: $10 \div 5 = 2$

same number, 10.

Multiply by 10 to make a whole number. 1.95 5.2)10.1452)101.40 -52494 Multiply by the -468

Place the decimal point.

Divide as with whole numbers.

10.14 divided by 5.2 is 1.95.

Annex a zero to continue.

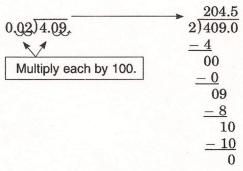
Compare the quotient with the estimate.

Check

 $1.95 \times 5.2 = 10.14 \checkmark$

Example 2

Find $4.09 \div 0.02$.



Place the decimal point. Divide.

Write a zero in the dividend

and continue to divide.

4.09 divided by 0.02 is 204.5.

Check

 $204.5 \times 0.02 = 4.09$ \checkmark

Exercises

Divide.

$$1.9.8 \div 1.4$$

2.
$$4.41 \div 2.1$$

3.
$$16.848 \div 0.72$$

4.
$$8.652 \div 1.2$$

5.
$$0.5 \div 0.001$$

6.
$$9.594 \div 0.06$$

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