

Date

T: division with decimals

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|----|-----------------|-------------------|----------------------|
| 1) | $8 \div 2 = 4$ | $80 \div 20 = 4$ | $800 \div 200 = 4$ |
| 2) | $15 \div 5 = 3$ | $150 \div 50 = 3$ | $1,500 \div 500 = 3$ |
| 3) | $24 \div 3 = 8$ | $240 \div 30 = 8$ | $2,400 \div 300 = 8$ |

What pattern do you notice?

If you do the same thing to the numbers on either side of a division sign, the answer to the division will be the same!

This can help us when it comes to division with decimals:

- 1) Multiply both numbers by 10 or 100 to get rid of the decimal and solve the calculation you just created.
- 2) You have your answer to the question!

Examples:

Question: $4.5 \div 0.9$

Answer: 1) $45 \div 9 = 5$
2) $4.5 \div 0.9 = 5$

Question: $6 \div 0.05$

1) $600 \div 5 = 120$
2) $6 \div 0.05 = 120$

Remember to check your answers are sensible, for example, with $4.5 \div 0.9 = 5$ does $0.9 + 0.9 + 0.9 + 0.9 + 0.9 = 4.5$?