

Make it easy!

<p>When we are dividing, there are some neat properties of division that we can use to help us make difficult problems much simpler.</p> <p>For example, all of these problems will give me the same answer:</p> $6 \div 2 =$ $(6 \times 3) \div (2 \times 3) =$ $(6 \times 10) \div (2 \times 10) =$ $(6 \times 7) \div (2 \times 7) =$ <p>Each problem will give me an answer of three. We have talked briefly about why this is the case, and we will talk more about it later, but for now just trust me on this one!</p> <p>This means we can take some division problems that might look difficult, and make them easier by multiplying our dividend and our divisor by some number.</p>	<p>For example a problem like</p> $.015 \div .003 =$ <p>Might look daunting. However, I can multiply them by some number to make this an easier to understand and complete problem. As long as I multiply both by the same number, I will still get the same answer as I would if I did the original problem.</p> <p>In this case, I'll multiply .003 by 1000 in order to make my divisor a nice whole number. Since I'm multiplying .003 by 1000, I have to multiply .015 by 1000 as well. We can think of this as just multiplying by 10 three times, or moving our decimal point over 3 spaces.</p> <p>So my new problem becomes:</p> $(.015 \times 1000) \div (.003 \times 1000) =$ <p>Which is...</p> $15 \div 3 = 3$ <p>So, $.015 \div .003 = 3$</p>
1. $7.7 \div 0.7 =$	2. $2.4 \div 0.1$
3. $5.6 \div 0.7 =$	4. $21.9 \div 0.3 =$
5. $6.14 \div 0.1 =$	6. $9.6 \div 0.04 =$