

15: $420 \div 0.7 = 60?$

The problem here stems from the 0.7. With just a 7 it would be straightforward, so do this first:

$$\frac{420}{7} = 6$$

However, in the division we should have used 0.7 - a number smaller than the 7 we used, in fact, 10 times smaller. So the results should have been 10 times bigger, namely 600.

If you divide by a bigger number the result is smaller, and if you divide by a smaller number the result is bigger.