

# Mental Math for Division

Believe it or not, there are strategies we can use to make division easier.

Consider the problem

$$2400 \div 50$$

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This problem can be made easier by multiplying (or dividing) the dividend and divisor by the same number.

How is this different from the strategy we just learned for multiplication?

$$2400 \div 50$$

We multiply (or divide) BOTH dividend and divisor when doing a division problem. When doing a multiplication problem, we divide one factor and multiply the other by the same number.

$$2400 \div 50$$

What number can we multiply the dividend and divisor by to give us nice numbers to work with?

$$2400 \div 50$$

$$(2400 \times 2) \div (50 \times 2)$$

order of operations

$$2200 \div 4$$

Remember, we can multiply OR divide BOTH the dividend and divisor by the same number.

**Let's try another one.**

$$350 \div 70$$