

Equivalent Fractions

3rd Grade

Different numbers, exactly the same amount.

Multiply or divide the top and bottom by the same number and the value does not change.

$$1/2 = 2/4 = 3/6 = 4/8$$

$$1/2 \times 2/2$$

$$2/4$$

You multiplied by 1 in disguise, so nothing really changed.

$$1/3 \times 3/3$$

$$3/9$$

Three times as many pieces, three times as many taken.

$$6/8 \div 2/2$$

$$3/4$$

Dividing both is how you simplify.

$$10/20 \div 10/10$$

$$1/2$$

Divide by the biggest number that goes into both.

THE COMMON MISTAKE

✗ $1/2 = 2/3$ (add 1 to each)

✓ $1/2 = 2/4$ (multiply each by 2)

Adding changes the ratio. Only multiplying and dividing keep it.

Simplest form means no number except 1 divides into both.