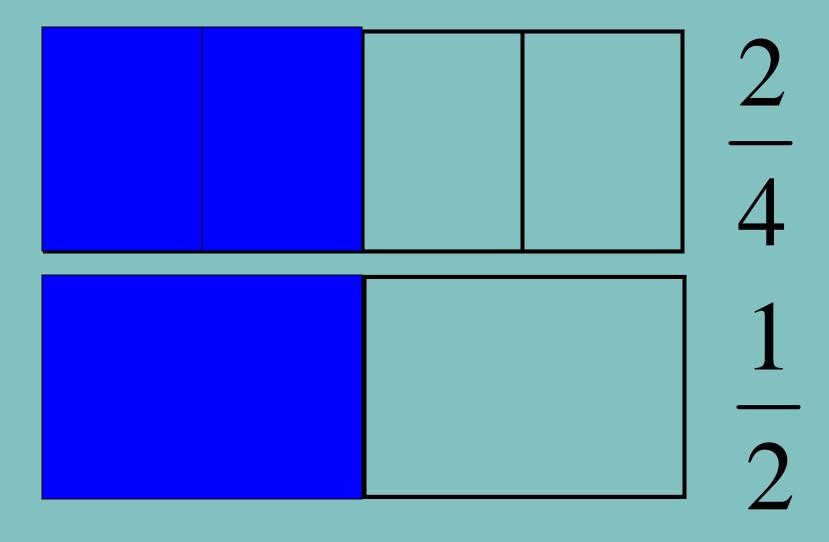
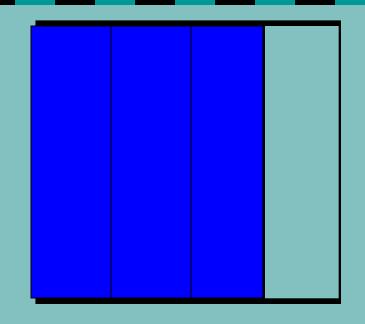
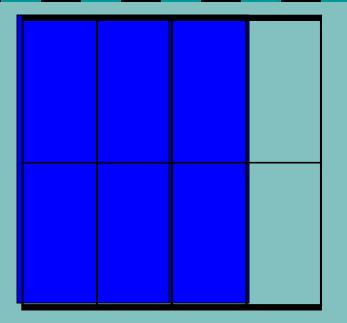
Simplifying Fractions

Vocabulary

Equivalent fractions – fractions that name the same number.





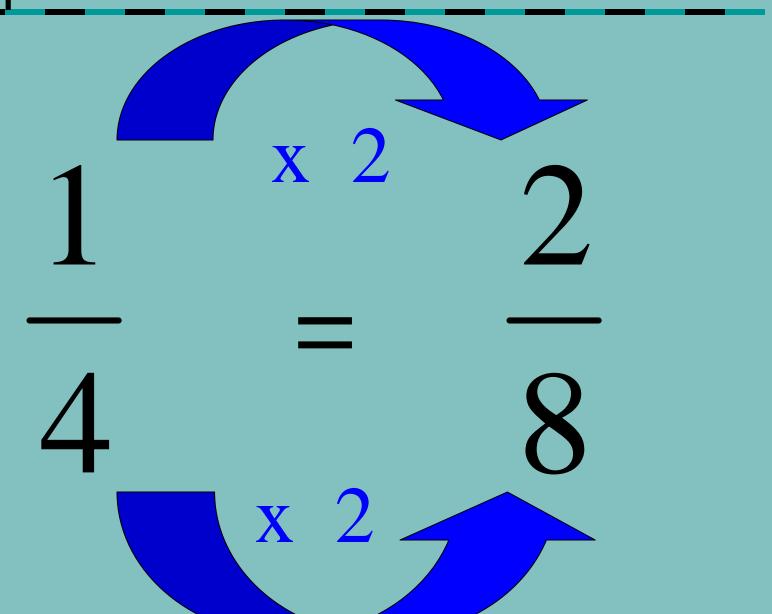


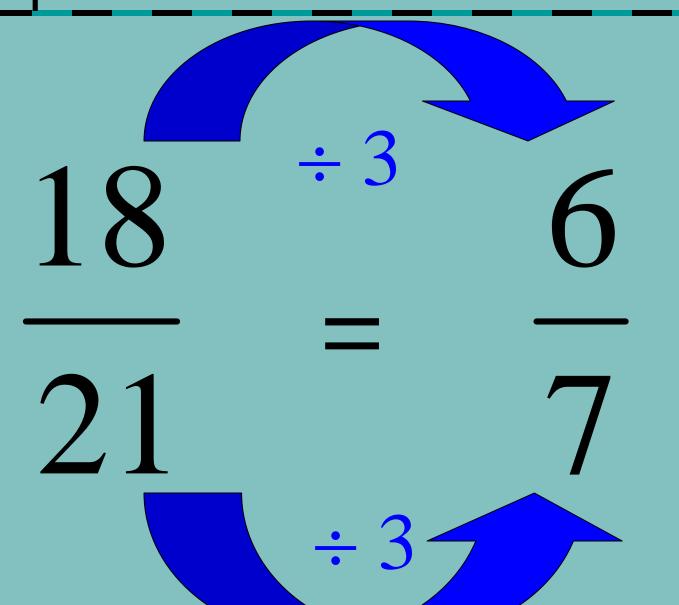
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To find an equivalent fraction you multiply or divide the numerator <u>and</u> the denominator by the same number.





Vocabulary

Simplest form — when the GCF of the numerator and denominator is one.

When the numerator is 1, the fraction will not reduce.

Example:

When the denominator is prime, the fraction *will not* reduce.

Example: $\frac{4}{7}$ (prime)

When the numerator is one less than the denominator, the fraction *will not* reduce. (Counting order)

Example: 4

5

When the numerator is prime and does not divide the denominator evenly, the fraction will not reduce.

Example:

5 (prime)

When the numerator and the denominator are even, the fraction will always reduce.

Example:
$$8 \div 2 = 4$$

$$\frac{10 \div 2}{5}$$

When the numerator divides the denominator evenly, the fraction *will always* reduce.

Example:

$$\frac{5}{15} \div 5 = \frac{1}{3}$$

When the numerator and the denominator can be divided by a common factor, the fraction will always reduce.

Example:

$$\frac{9 \div 3}{12 \div 3} = \frac{3}{4}$$