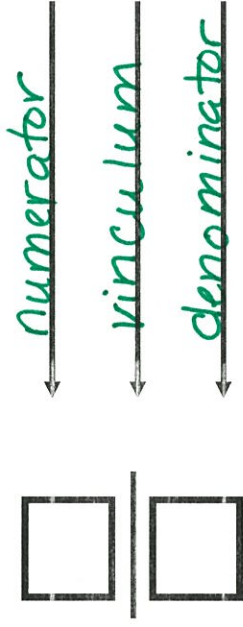


FRACTION REVIEW



NO DENOMINATOR? NO PROBLEM!

Any number can be made into a fraction by adding a denominator of 1.

NEGATIVE FRACTIONS

3 Ways to Show a Fraction is Negative:

$$-\frac{1}{2} \quad \frac{1}{-2} \quad -\frac{1}{-2}$$

EQUIVALENT FRACTIONS

If you multiply or divide the numerator and denominator by the same number, you get an equivalent fraction.

$$\frac{2 \cdot 7}{3 \cdot 7} = \frac{14}{21}$$
$$\frac{100 \div 25}{25 \div 25} = \frac{4}{1}$$

$$\frac{9 \cdot 4}{2 \cdot 4} = \frac{36}{8}$$
$$\frac{8 \div 4}{20 \div 4} = \frac{2}{5}$$

REDUCING

A fraction is fully reduced when the only number that divides evenly into both the numerator and the denominator is 1.

$$\frac{120}{112} \div 2 = \frac{60}{56} \div 2 = \frac{30}{28} \div 2 = \frac{15}{14}$$

$$\frac{42}{56} \div 2 = \frac{21}{28} \div 7 = \frac{3}{4}$$

$$\frac{42}{56} \div 2 = \frac{21}{28} \div 7 = \frac{3}{4}$$

ADDING & SUBTRACTING

We can only add and subtract fractions if they are written with the same denominator.

1. Rewrite as equivalent fractions with the same denominator.
2. Add or subtract the numerators.
3. The denominator stays the same.
4. Simplify, if possible.

MULTIPLYING

We can multiply fractions with any denominators.

1. Multiply the numerators.
2. Multiply the denominators.
3. Simplify, if possible.

DIVIDING

We can divide fractions by rewriting as a multiplication problem.

1. The first fraction Stays the same.
2. Division becomes multiplication.
3. Flip (Take the reciprocal of) the second fraction.
4. Follow the rules for multiplication.