Adding Fractions

Adding fractions can be easy when you have common denominators.

$\dfrac{x}{y}$ x ⟵ The number on the top is known as the "numerator."

y ⟵ The number on the bottom is known as the "denominator."

Example: $\dfrac{2}{8} + \dfrac{3}{8} = ?$

The denominator in both numbers is 8. All we have to add is the numerators.

$$\dfrac{2}{8} + \dfrac{3}{8} = \dfrac{2+3}{8} = \dfrac{5}{8}$$

For each problem below, follow the steps used in the example to find your solution.
Be sure to reduce your fraction to its lowest terms.

1) $\dfrac{4}{5} + \dfrac{1}{5} = ?$

2) $\dfrac{10}{15} + \dfrac{12}{15} = ?$

3) $\dfrac{6}{24} + \dfrac{9}{24} = ?$

4) $\dfrac{11}{11} + \dfrac{11}{11} = ?$

5) $\dfrac{55}{100} + \dfrac{23}{100} = ?$

6) $\dfrac{76}{250} + \dfrac{43}{250} = ?$

7) $\dfrac{13}{50} + \dfrac{14}{50} = ?$

8) $\dfrac{90}{500} + \dfrac{90}{500} = ?$

Adding Fractions

Adding fractions with unlike denominators may seem difficult at first, but once you learn all about common denominators, you will realize how easy they really are.

-If you want to add two fractions together, both fractions must have the same or "common" denominator.

-A common denominator is a shared multiple of the denominators in two or more fractions.

Example: $\dfrac{2}{3} + \dfrac{1}{6} = ?$

-The first step in solving this equation is to find the common denominator.
-3 is a multiple of 6; 3 x 2 = 6. We have found our common denominator, which is 6.
-If we multiply the denominator by 2, we must multiply the numerator by 2 as well.
-Our new equation and result will look like this:

$$\frac{2x}{2x}\frac{2}{3} + \frac{1}{6} = \frac{4}{6} + \frac{1}{6} = \frac{5}{6}$$

For each problem below, follow the steps used in the example to find your solution. Be sure to reduce your fraction to its lowest terms.

1) $\dfrac{1}{3} + \dfrac{2}{5} = ?$

2) $\dfrac{1}{9} + \dfrac{4}{7} = ?$

3) $\dfrac{1}{4} + \dfrac{3}{8} = ?$

4) $\dfrac{2}{7} + \dfrac{3}{5} = ?$

5) $\dfrac{5}{6} + \dfrac{2}{5} = ?$

6) $\dfrac{3}{8} + \dfrac{2}{9} = ?$

7) $\dfrac{1}{2} + \dfrac{3}{4} = ?$

8) $\dfrac{4}{8} + \dfrac{1}{2} = ?$