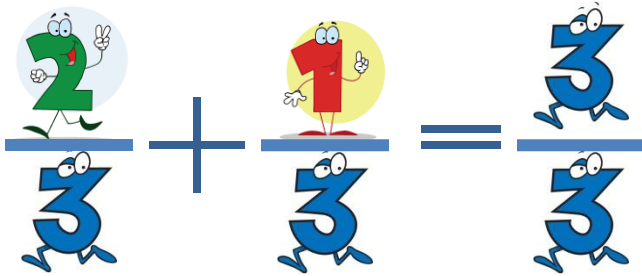


# Adding Fractions



With **SAME** Denominators

**EXAMPLES – IT'S EASY TO ADD WHEN THE DENOMINATOR IS THE SAME.**

$$\frac{1}{5} + \frac{1}{5} = \frac{2}{5}$$

$$\frac{5}{9} + \frac{2}{9} = \frac{7}{9}$$

$$\frac{5}{6} + \frac{3}{6} = \frac{8}{6}$$

$$\frac{1}{1} + \frac{2}{1} = \frac{3}{1}$$

$$\frac{2}{3} + \frac{3}{3} = \frac{5}{3}$$

$$\frac{7}{8} + \frac{1}{8} = \frac{8}{8}$$

**3** NUMERATOR  
**4** DENOMINATOR

top part of fraction  
bottom part of fraction

$$\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$$

NUMERATOR  
3/4  
DENOMINATOR

Fractions are also written with the top number first, then the bottom number. That's because most of our software programs (like Microsoft Word) don't let you type your fractions the other way.

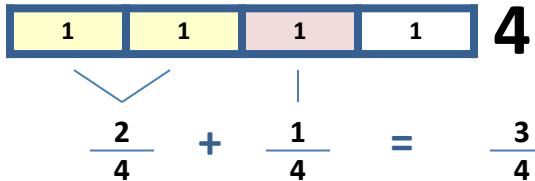
$$1/4 + 1/4 = 2/4$$

## SMART TIP

Rewrite a fraction that looks like this:  $4/7 + 1/7 = \underline{\quad}$

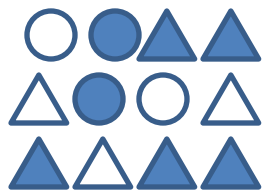
To this  $\frac{4+1}{7} = \frac{5}{7}$

The fraction will be easier to work with! Yes, that means you have to get out your scratch paper.



You can add the units when they ARE the same. So there are 2 yellow units plus 1 pink unit for 3 shaded units of the 4.  $3/4$  of the units are shaded.

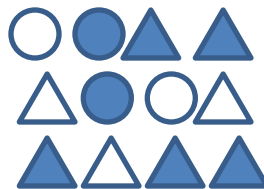
What **fraction** of the objects are circles?



4 of the objects are circles.  $\frac{4}{12}$   
 There are **12** objects.  $\frac{4}{12}$

*$\frac{4}{12}$  of the objects are circles.*

What **fraction** are the shaded objects?



2 of the circles are shaded +  
 5 of the triangles are shaded  
 = **7** of the objects shaded.  $\frac{7}{12}$   
 There are **12** objects.  $\frac{7}{12}$

*$\frac{7}{12}$  of the objects are shaded.*

**THESE STATEMENTS MEAN TO TELL THE FRACTION.**

- *What part of . . .*
- *Which portion of . . .*
- *What fraction of . . .*
- *What is the fraction for . . .*

**THESE STATEMENTS MEAN TO ADD TWO OR MORE FRACTIONS:**

- *What is the total . . .*
- *What is the sum . . .*
- *How many altogether?*
- *How many total?*
- *What is the total of these two fractions?*
- *What is the sum of these two fractions?*
- *What is the value of these fractions?*
- *What are these fractions combined?*

**NUMERATOR** **2**



**4**  
**DENOMINATOR**

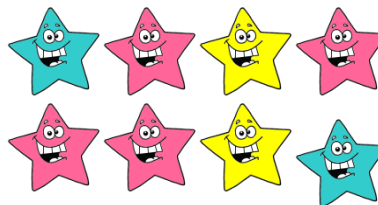
There are four parts in the bar above. **Two of the four** parts are yellow. This can also be written as **two-fourths** of the bars are yellow.  $\frac{2}{4}$  of the bars are yellow.



There is **one red balloon** of five balloons. **1 of 5** balloons are red.  $\frac{1}{5}$  of the balloons are red.



There are **three puppies**. **2 of the 3** puppies are brown.  $\frac{2}{3}$  of the puppies are brown.



There are **8 stars** in the group.  
**Four of the eight** stars are pink.  $\frac{4}{8}$  of the stars are pink.  
**Two of the eight** stars are blue.  $\frac{2}{8}$  of the stars are blue.  
**Two of the eight** stars are yellow.  $\frac{2}{8}$  of the stars are yellow.