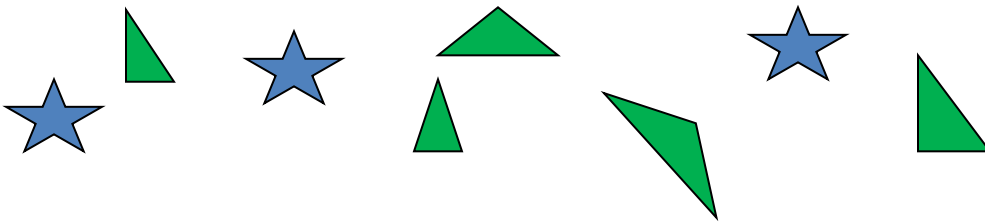


## 10-1: What is a Ratio?



**Objective:** You've learned to work with fractions. Now you will work with a special kind of fraction called a **ratio**.

**Ratio:** a comparison of two quantities:



\*\*\*\*The ratio of stars to triangles can be written in three ways:

**3 to 5, 3:5, or  $\frac{3}{5}$ .**



\*\*\*\*Remember: ratios are fractions so they must be simplified if possible:

$$\frac{\text{\# of 11 year old athletes on team}}{\text{\# of athletes on team}} = \frac{2}{6} = \frac{1}{3}$$



### You Try:

Fire engines carry fire hoses. Fire trucks carry mainly ladders and fire-fighting equipment other than hoses. At one point, the city of San Francisco had 40 fire engines and 18 fire trucks.

- a. Give the ratio of fire engines to fire trucks in lowest terms.
  
  
  
  
  
  
  
  
  
  
- b. Give the ratio of fire trucks to total fire vehicles in lowest terms.



Extension: How is a ratio like a fraction? How is it different?