**Ratio**—— Is a multiplicative comparison of two quantities.  

For example. 5 ounces to 10 ounces as a ratio would be:

\[
\frac{5 \text{ ounces}}{10 \text{ ounces}} = \frac{5}{10} = \frac{1}{2},
\]

which is a **1 to 2 ratio** or **1 : 2 ratio**

Write as a ratio:
1. 3 to 5  
2. 14 : 21  
3. 0.9 to 0.6  
4. 8 ounces to 1 pound  
5. 3 inches to 15 inches  
6. 3 inches to 4 feet  
7. 4 hours to 2 days.  

8. Monthly income = $2,500  
   Monthly cost of gas = $300  
   Monthly cost of food = $456  

   a) Write the ratio of the monthly cost of gas to the monthly income.

   b) Write the ratio of the monthly cost of food to the monthly cost of gas.

9. Five of every six students interviewed favored a change in library hours. Draw a picture of this situation to help answer the questions.

   A) Among those interviewed, what is the ratio of those who favor a change to those who do **not** favor a change?

   B) Among those interviewed, what is the ratio of those who do **not** favor a change to the those who favor a change?

   C) The number of students who do **not** favor a change is _______ times the number of students who do favor a change.

   D) The number of students who do favor a change is _______ times the number of students who do **not** favor a change.