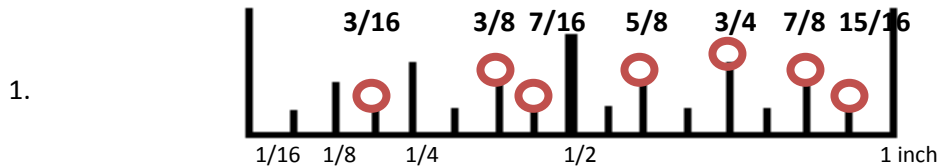


ANSWER KEY: **Measurement Worksheet 1**

Rulers and tape measurers are used to measure objects and draw lines of specific lengths. The basic unit of measurement is the inch. The abbreviation for the inch is in. or " also symbolizes the inch. A standard ruler is divided into sixteenths or sixteen equal parts. If you count the lines on a ruler, the 5<sup>th</sup> line measures 5/16. When measuring something that is less than one inch, the answer will be in the form of a fraction, such as 5/16. The denominator will always be 16 because each inch is divided into sixteenths. You may also be able to reduce the fraction to a lower number which will change the denominator ( $8/16 = 1/2$ ), but you should always start with 16 as your denominator.

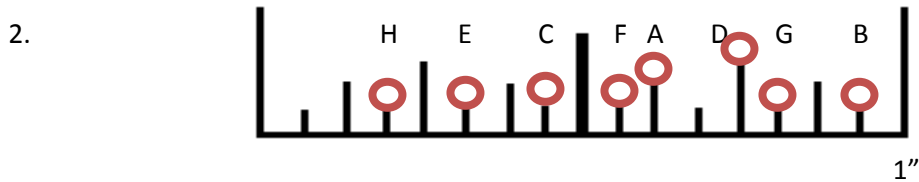
When using the ruler to measure, be sure to line up the object to be measured at the edge of the ruler.

**Adding and Subtracting Measurements**



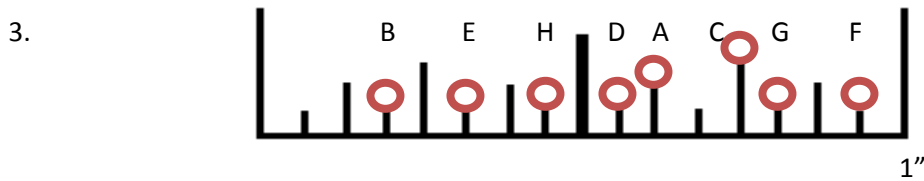
Circle and label the following measurements on the line above:

3/4, 7/8, 3/16, 5/8, 7/16, 15/16, 3/8



Add the following measurements, then circle and label on the line above:

- |                        |                         |                          |                        |
|------------------------|-------------------------|--------------------------|------------------------|
| a. $1/2 + 1/8 = 5/8$   | b. $3/4 + 3/16 = 15/16$ | c. $1/4 + 3/16 = 7/16$   | d. $1/2 + 1/4 = 3/4$   |
| e. $1/4 + 1/16 = 5/16$ | f. $3/8 + 3/16 = 9/16$  | g. $11/16 + 1/8 = 13/16$ | h. $1/16 + 1/8 = 3/16$ |



Subtract the following measurements, then circle and label on the line above:

- |                        |                        |                       |                         |
|------------------------|------------------------|-----------------------|-------------------------|
| a. $3/4 - 1/8 = 5/8$   | b. $1/4 - 1/16 = 3/16$ | c. $7/8 - 1/8 = 3/4$  | d. $7/8 - 5/16 = 9/16$  |
| e. $1/2 - 3/16 = 5/16$ | f. $1 - 1/16 = 15/16$  | g. $1 - 3/16 = 13/16$ | h. $13/16 - 3/8 = 7/16$ |

Imagine that the line below is one inch in length.



Half of that 1" line is  $1/2$  inch.



One-half of  $1/2$ " is  $1/4$ ".

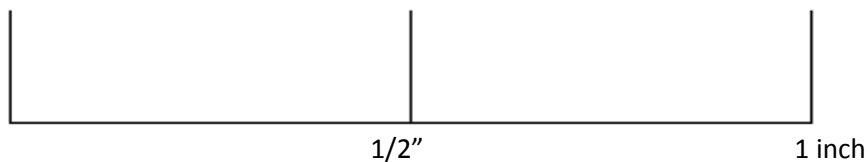


One-half of  $1/4$ " is  $1/8$ ".

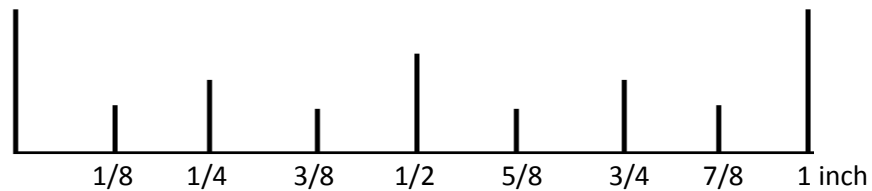


One-half of  $1/8$ " is  $1/16$ ".

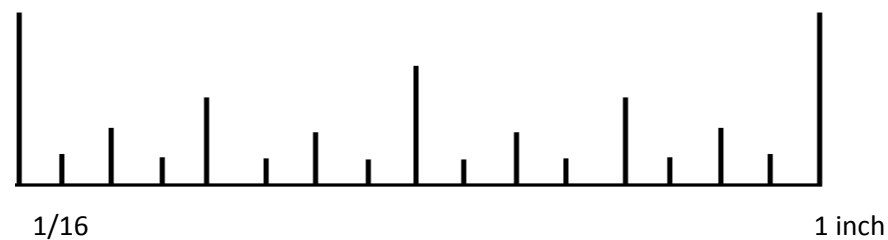
There are 2 halves in one inch.



There are eights  $1/8$ 's in one inch.



There are 16  $1/16$ ths in one inch.



Note: The number of times the line is evenly divided into appears at the **bottom** of the fraction.