Make Your Own Ruler!!

1.   Compare your "ruler" to the 12" ruler:

- Is your "ruler" the same length?
- If not, adjust it by trimming it to the proper length.

2.   Mark off 1 inch increments:

- Make your mark all the way across the ruler; straight down.
- Write 1-12 on the markings (make narrow numbers so that they stay on the 1" marking)
- Observe that the 1" increments have the same space between them.
- Each space is 1 inch apart.
- Must start from zero to go to 4 inches, etc.

3.   ½ Inch increments:

- What do we use when we do not have a whole inch? _____
- If we were to go ½ the distance from zero to 1 inch, what fraction is that? _____
- Mark your ruler with ½ inches.
- Make your make ½ the length of the 1 inch marking.
- Label your units of halves.
- How many halves are in a whole? _____(write as a ratio)_____
- How many halves are in 2 inches?_____(write as a ratio)_____
- How many halves are in 3 inches?_____(write as a ratio)_____
- How many halves are in 4 inches?_____(write as a ratio)_____
- What "rule" can you make when comparing halves to a whole unit?

_____
_____
_____

- When would you use ½ inches in measurements?

_____
_____
_____

4.   ¼ Inch increments:

- What unit of an inch would you use if it were a half of a half-inch? _____
- Draw your fourths of an inch; ½ the size of the fourths.

- Label your units of fourths
- How many fourths does it take to make one-inch? _____
- How many fourths are in one-half? _____
- Write these equivalent fractions comparing halves to fourths:

½ = __/4   __/2 = 4/4

5.   ½ inch increments:

- What fractional part is ½ of ¼? _____
- How many eights does it take to make one whole? _____
- Write equivalent values for fourths to eights:

¼ = __/8   2/4 = __/8   ¾ = __/8

6.   Write ten equivalent fractions that you see on your ruler:

_____   _____

_____   _____

_____   _____

_____   _____

_____   _____

7.   Measure your height to the neatest ¼ inch: _____

8.   Measure the length of your foot to the nearest ½ inch: _____

9.   Measure five objects in the room to the nearest ¼ inch: _____

Item: _____   Measurement: _____

Item: _____   Measurement: _____

Item: _____   Measurement: _____

Item: _____   Measurement: _____

Item: _____   Measurement: _____