

PROBLEM #1

1. Write your name on the top of your paper.
2. Draw a 15 cm long segment on your paper.
2. Draw a point at each end of the segment.
3. Label one of the points A and the other point B.
4. Draw another segment from point A that is also 15cm long. It can go any direction you want as long as it fits on the paper, and ends at least 5 cm away from the first segment.
5. Draw a point at the end of the new segment, call it C.
6. Connect C to B
7. Use your ruler and protractor to find the following measures:

$$\overline{AB} =$$

$$m\angle A =$$

$$\overline{BC} =$$

$$m\angle B =$$

$$\overline{AC} =$$

$$m\angle C =$$

PROBLEM #2

On the other side of your paper.....

1. Draw a segment between 10cm and 15 cm long.
2. Label the endpoints X and Y.
3. At point X, construct an angle between 20 degrees and 70 degree.
4. At point Y, construct an angle that has the same measure.
5. Find the point where the two angle meet, and call that point Z.
- ** You should now have made a triangle that has 2 angles that are congruent.
7. Use your ruler and protractor to find the following measures:

$$\overline{XY} =$$

$$m\angle X =$$

$$\overline{YZ} =$$

$$m\angle Y =$$

$$\overline{XZ} =$$

$$m\angle Z =$$

PROBLEM #3

Try to create a triangle with all 3 sides of length 12cm.