1 Draw two lines crossing each other. How many angles are formed by these lines? Point out the two angles whose sides extend in opposite directions. These are vertical angles. Define vertical angles.

2. Draw two angles that have a common vertex and a common side between them. These are adjacent angles. Define adjacent angles.

3 Measure with the protractor the sum of two adjacent angles.

4. Can you show without a protractor that the sum of two adjacent angles is equal to two right angles?

5. Find the supplement or adjacent angle of each of the following angles: 40°; 80°; 60°; 120°; 25°; 160°; 110°.

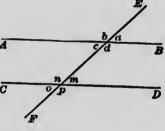
6. Compare with a protractor the size of any two vertical angles.

7. Can you show without a protractor that two vertical angles are always equal to each other?

8. Draw two lines crossing each other. Point out the adjacent angles; vertical angles. Find the sum of all the angles.

9. If one of the angles formed by two intersecting lines is 90°, what are the others? If one of the angles is 20°, what are the others?

10. In this figure, AB is parallel to CD. Point out the internal angles; external angles; external angles; exterior-interior angles; alternate-interior angles. Show with and without a protractor what angles are  $\overline{c}$  equal. What angles are together equal to two right angles?



11. Put the edge of a rule upon the top of your desk or upon the blackboard. If the rule touches the surface at every point, it is a plane surface. Define plane surface. Draw on a plane surface a figure bounded by straight lines. This is a polygon. Define polygon.

12. Draw, name characteristics, and define each of the following named figures: triangle; equilateral triangle; isosceles triangle; scalene triangle; right-anyled triangle; oblique-angled triangle; acute-angled triangle; obtuse-angled triangle; equiangular triangle.