- 1. Draw a quadrilateral. Draw diagonals. (How many?) Define quadrilateral. Define diagonal.
- 2. Draw and define trapezium; trapezoid; parallelogram; rectangle; square; rhomboid; rhombus.
- 3. Show with a protractor that the sum of the angles of a quadrilateral is equal to 360°. Can you show this without the aid of a protractor?
- 4. Can you show that the diagonal of a parallelogram divides the parallelogram into two equal parts?
- 5. Can you show that any two consecutive angles of a parallelogram are equal to two right angles?
- 6. Can you show that the opposite sides of a parallelogram are equal?
- 7. Can you show that the opposite angles of a parallelogram are equal?
- 8. Can you show that the diagonals of a parallelogram bisect each other?
- 9. If one angle of a parallelogram is 60°, what are the other angles?
- 10. Construct a rhombus with one side 2 inches long and with one angle of 40°. What are the other sides and angles?
- 11. Draw two lines each one inch long, and two lines each two inches long. Draw an angle less than 90°. From these construct a parallelogram.
- 12. Draw four lines of unequal lengths. Draw an angle of 70°. From these construct a trapezoid. What is the altitude of this trapezoid? the length of median line?
- 13. Draw an isosceles trapezoid. What can you show of the angles adjacent to one of the parallel lines?
 - 14. Can you divide a parallelogram into 2 equal parallelograms?
 - 15. Can you divide a rhombus into 4 equal right-angled triangles?
- 16. Can you divide an isosceles trapezoid into a parallelogram and an isosceles triangle?
- 17. Draw and define a pentagon; hexagon; heptagon; octagon; nonagon; decagon; dodecagon.