



Number and Operations Ages 5–9

Goals:

- Develop number sense for whole numbers
- Use grouping of 2's, 5's, and 10's with models and pictures
- Use area, region, and set models of fractions to explore part/whole relationships in context
- Develop fluency with single-digit addition and corresponding differences using modeling, composing, and decomposing quantities
- Create, model, and solve problems that use addition, subtraction, equal grouping, and division into fraction form
- Create and solve problems using modeling, composing, and decomposing quantities

Scrapbooking With Shapes

Objective: Connect model, number word, and number using a variety of representations

Have each child trace a triangle Magna-Tile® on one sheet of paper and a square Magna-Tile® on another sheet of paper. Provide old magazines, catalogs, newspaper circulars, or other printed materials. Challenge the children to locate and cut out pictures from the magazines, catalogs, etc. that contain triangles or squares. The children can then glue each picture to the appropriate page. At the bottom of each page, **encourage the child to print the numeral and word to represent the number of items they found to represent each shape.** If desired make book for the classroom by combining all the square pages into one book and all the triangle pages into another book.

Only 5

Objective: Create and solve problems using modeling, composing, and decomposing quantities

Using only five triangles, encourage the children to construct a new shape, the pentagon, on a sheet of construction paper. (Hint: penta = 5). After creating the shape, trace the pentagon onto the paper. **Challenge the children to incorporate the pentagon shape into a picture as they draw with markers, crayons, or colored pencils.**

