

Math Connections for Parents

Grade 2 Module 8

Time, Shapes, and Fractions as Equal Parts of Shapes

Welcome to Second Grade Module 8! In this last module, students will look at shapes and will explore them through fractions. First, students will review basic shapes and explain how they are alike and different. They will explore how shapes can be divided into equal pieces of halves, thirds and fourths. Also in this module is a review of telling time to the nearest five minutes and they will compare this measurement on a clock to finding halves and fourths on a circle.

Important Words and Concepts

- Angle: figure formed by the corner of a polygon
- Parallel: two lines are parallel if they do not intersect or cross over
- Parallelogram: quadrilateral with both pairs of opposite sides parallel
- Polygon: closed figure with three or more straight sides (e.g. triangle, quadrilateral, pentagon, hexagon)
- Quadrilateral: four-sided polygon (e.g. rhombus, rectangle, parallelogram, trapezoid)
- Right angle (e.g. square corner)
- Attributes: characteristics of an object such as number of sides, angles or faces

Sums and Differences to 20

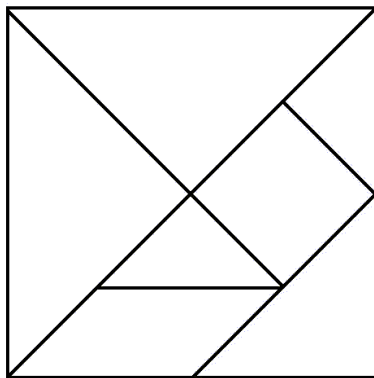
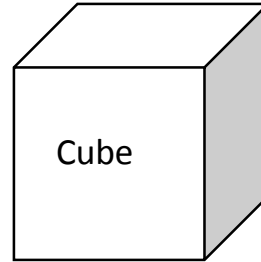
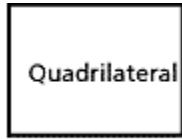
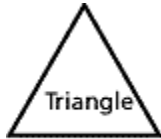
Students have worked all year on mastering addition and subtraction facts from 0-20. Continue this practice over the summer, so your child has a solid understanding of addition and subtraction going into third grade. In third grade, students will work on multiplication and division.

KEY STANDARDS

- Tell and write time to the nearest five minutes, using a.m. and p.m. on both digital and analog clocks (clock with minute and hour hands)
- Recognize and draw shapes. Identify triangles, quadrilaterals, pentagons, hexagons and cubes.
- Divide circles and rectangles into two, three or four equal shares.
- Describe how they divided the circles and rectangles with the words *halves*, *thirds* and *fourths*.

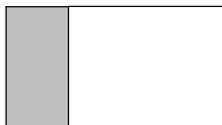
Graphics and Strategies you may see...

Common Polygons



A **Tangram** is made of many different shapes and can be used to create different shapes

Students will use what they learn about shapes to divide **fractional parts**. They will learn that when they divide, the pieces must be equal sizes.



This shape does not show halves



This shape correctly shows equal parts to make halves

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Students will use their knowledge of fractions as they practice telling time.

They will use words like “quarter to” and “half past” to explain the times.

