

**SAU 50
Grade 1
Mathematics
Geometry**

Geometry: reason with shapes and their [attributes](#).

SAU 50 District Competency:

Students will independently use their learning to compose, decompose, and create based on spatial reasoning.

Essential Questions

- How do we know when parts are equal?
- How can shapes be used to create other shapes?
- How can we use attributes of a shape to compare and contrast one shape with another?
- How can we sort shapes by attribute?
- Why do all fractions of one shape need to be equal in size?

Acquisition

Students will demonstrate the following to meet the standards.

- I can show fractions of halves, thirds, and fourths.
- I can build and draw shapes to show different attributes of various objects to show how they are alike and different.
- I can compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles).
- I can compose three-dimensional shapes to create (cubes, right rectangular prisms, right circular cones, and right circular cylinders).
- I can compose new shapes from the composite shape.
- I can partition circles and rectangles into two and four equal shares, describe the shares using words *halves*, *fourths*, and *quarters*, and use the phrases *half of*, *fourth of*, and *quarter of*.
- I can describe the part of the whole using the words half of, fourth of, and quarter of.

Standards

NH College and Career Ready Standards

Key to Standard Notation:

1.G.1: **1**(*grade level*) **G** (*domain: Geometry*) **1** (*number of the standard*)

Geometry

Reason with shapes and their attributes.

1.G.1: Distinguish between defining attributes versus non-defining attributes; build and draw shapes to possess defining attributes.

1.G.2: Compose two-dimensional shapes (*rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles*) or three-dimensional shapes (*cubes, right rectangular prisms, right circular cones, and right circular cylinders*) to create a composite shape, and compose new shapes from the composite shape.

1.G.3: Partition circles and rectangles into two and four equal shares, describe the shares using the words, *halves, fourths, and quarters*, and use the phrases *half of, fourth of, and quarter of*. Describe the whole as two of or four of the shares. Understand for these examples that decomposing into more equal shares creates small shares.

[New Hampshire College and Career Ready Standards](#)

References:

National Governors Association Center for Best Practices, Council of Chief State School Officers. (2010). *Common Core Standards for Mathematics* (United States, National Governors Association Center for Best Practices, Council of Chief State School Officers). Retrieved August 10, 2016, from http://www.corestandards.org/assets/CCSSI_Math%20Standards.pdf

Math is fun/definitions. (n.d.). Retrieved April 17, 2017, from <http://www.mathisfun.com/definitions>