## Bridges in Mathematics, Grade 2

## Unit 6: Geometry

In this unit, your child will:

- Identify, describe, draw, and create 2-D shapes based on their defining features

- Explore the area of shapes, especially rectangles
- Split whole shapes into 2, 3, or 4 equal parts called halves, thirds, or fourths/quarters
- Recognize that equal parts of identical wholes do not need to be the same shape

Your child will solve problems like those shown below. Keep this sheet for reference when you're helping with homework.


Find the area of the shape. Write an equation to show how you found your answer. | To solve this problem, students must |
| :--- |
| understand that the area of any shape is the |
| total number of square units it takes to fill in |
| the shape. In this case, the rectangle shape is |
| filled with 8 square units. |

## FREQUENTLY ASKED QUESTIONS ABOUT UNIT 6

## Q: I can't remember what so many of the geometry words mean. Where can I go for help?

A: These geometry words let us name shapes and talk about them in precise ways. See the attached Geometry Vocabulary Terms for a refresher.

## Q: Why is geometry important?

A: Studying geometry gives students ways to analyze the physical world. The skills students develop nowincluding the vocabulary that they will come to understand and use with confidence-will help them in high school geometry, trigonometry, physics, and calculus. An additional benefit of studying geometry is that many students with a strong spatial sense-for example, the ability to visualize and manipulate shapes in their minds-blossom when they are engaged in the kind of spatial problem solving featured in this unit.

## GEOMETRY VOCABULARY TERMS page 1 of 2


isosceles triangle
a triangle with exactly two
congruent sides
line of symmetry
a real or imaginary line that
divides a shape into two

mirror images parallelogram | a two-dimensional (flat) |
| :--- |
| shape with 4 sides, with |
| both pairs of opposite |
| sides parallel |

## GEOMETRY VOCABULARY TERMS page 2 of 2

## rectangle

a two-dimensional (flat) shape with 2 pairs of parallel sides ( 4 sides total) and 4 right angles


## rectangular prism

a three-dimensional shape (solid) whose 6 faces are all rectangles

rhombus sional (flat) shape with 4 congruent sides

## scalene triangle

a triangle whose sides are all of different lengths

form a two-dimensional (flat) shape

sphere a three-dimensional shape (solid) constructed so that every point of the surface is the same distance from a point called the center

square a two-dimensional (flat) shape with 4 congruent sides and 4 right angles

symmetry the property of a shape that can be folded so that the two halves match exactly


## three-dimensional

 (3-D) shape a solid shape with depth, width, and height; a shape that has volume

## trapezoid

a twodimensional (flat) shape with 4 sides, exactly 1 pair of which are parallel

triangle a two-dimensional (flat) shape with 3 sides


## triangular prism

a three-dimensional shape (solid) with 2 triangular bases and 3 rectangular faces


## two-dimensional (2-D) shape a flat

 shape with length and width; a shape that has area but not volume

## vertex or corner

the point at which the sides of a two-dimensional (flat) shape or the edges of a three-dimensional shape (solid) intersect


