



Common Core Math Newsletter

3rd Grade Unit 4: Attributes, Partitioning, Area and Perimeter of Polygons

In this unit, students will extend their understanding of fractions and use this understanding as it relates to area of polygons. In addition, students will look at regular polygons as separate shapes and parts of larger groups (e.g. a square is a rectangle, but a rectangle is not a square). Moreover, students will explore relationships between area and perimeter of polygons

Standards

3.G.1

- Understand that shapes in different categories (e.g. rhombuses, rectangles, and others) may share attributes (e.g. having four sides)
- Understand that shared attributes can define a larger category like quadrilaterals
- Recognize rhombuses, rectangles, and squares as examples of quadrilaterals
- Draw examples of quadrilaterals that do not belong to any of these subcategories

3.G.2

- Partition shapes into parts with equal areas
- Express the area of each part as a unit fraction of the whole
- Partition a shape into 4 parts with equal area, and describe the area of each part as $\frac{1}{4}$ of the area of the shape

3.MD.1

- Tell and write time

3MD.D.8

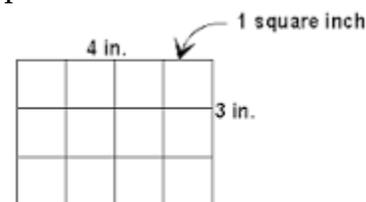
- Solve real world mathematical problems involving perimeters of polygons
- Find the perimeter given the side lengths
- Finding unknown side length
- Exhibiting rectangles with the same perimeter and different areas
- Exhibiting rectangles with the same area and different perimeters

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Vocabulary

attribute	a property of an object (e.g. number of edges, number of vertices)
category	grouping based on particular attributes
quadrilaterals	closed polygon with four edges (sides) and four vertices (corners)
polygon	closed plane figure having three or more edges
irregular polygon	does not have all edges or all angles equal
area	the number of unit squares that can be contained within a plane figure
perimeter	distance around two dimensional shape
time interval	difference between the occurrence of two events measured in time



Additional Resources

[IXL.com Topics:](#)

- Geometry
- Multiplication Skill Builder
- Time

LearnZillion.com Videos:

- <https://learnzillion.com/lessonsets/392-understand-shape-categories-and-attributes>
 - Quick Code LZ2388
- <https://learnzillion.com/lessonsets/580-partition-shapes-into-parts-with-equal-areas>
 - Quick Code LZ3108
- <https://learnzillion.com/lessonsets/125-solve-real-world-and-mathematical-problems-involving-perimeters-of-polygons>
 - Quick Code LZ1167
- <https://learnzillion.com/lessonsets/173-solve-elapsed-time-word-problems>
 - Quick Code LZ577

Be sure to look to the left of the video to see other lessons on the standard.