

North Penn School District
Elementary Math Parent Letter

Grade 1



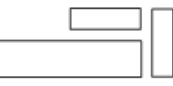

Unit 6 -- Chapter 12: Two-Dimensional Geometry

Examples from each lesson

Lesson 12.1

Sort Two-Dimensional Shapes

Reason with shapes and their attributes.

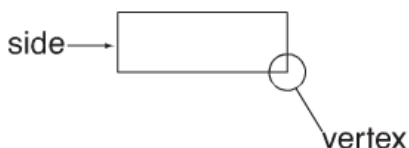
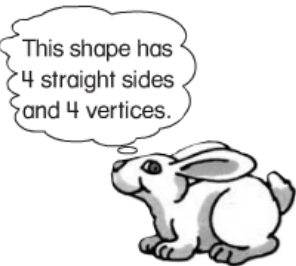
 <p>Circles are curved and closed.</p>	 <p>Triangles have 3 sides and 3 vertices.</p>	 <p>Rectangles have 4 sides and 4 vertices.</p>	 <p>A square is a special kind of rectangle.</p>
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More information on this strategy is available on Animated Math Model #48.

Lesson 12.2

Describe Two-Dimensional Shapes

Reason with shapes and their attributes.

	
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More information on this strategy is available on Animated Math Model #48.

Lesson 12.3

Combine Two-Dimensional Shapes

Reason with shapes and their attributes.

You can put shapes together to make a new shape.



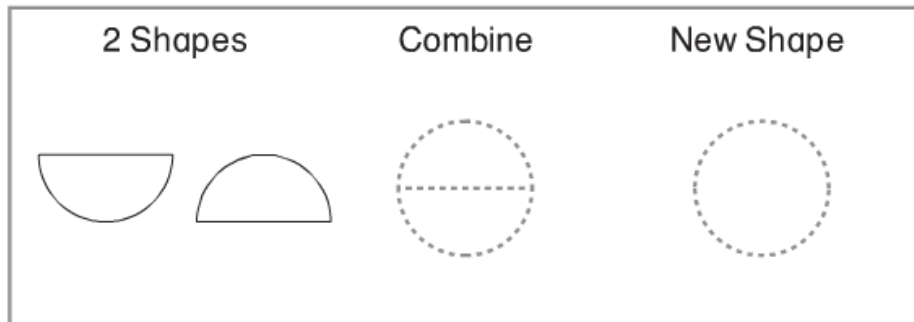
More information on this strategy is available on Animated Math Model #49.

Lesson 12.4

Combine More Shapes

Reason with shapes and their attributes.

Combine shapes to make a new shape.



More information on this strategy is available on Animated Math Model #49.




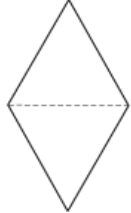
Lesson 12.5

Problem Solving • Make New Two-Dimensional Shapes

Reason with shapes and their attributes.

Luis wants to use \triangle to make a \diamond .
How many \triangle does he need?

Unlock the Problem

What do I need to find? how Luis can make a  using 	What information do I need to use? Luis uses 
Show how to solve the problem.  <u>2</u> \triangle make a \diamond .	

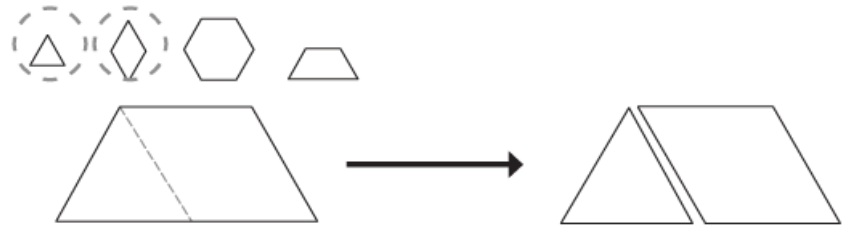
More information on this strategy is available on Animated Math Model #49.

Lesson 12.6

Find Shapes in Shapes

Reason with shapes and their attributes.

Which two pattern blocks make this shape?





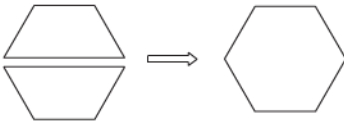
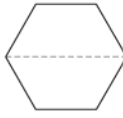
More information on this strategy is available on Animated Math Model #50.

Lesson 12.7

Take Apart Two-Dimensional Shapes

Reason with shapes and their attributes.

Use pattern blocks to help you find the parts of a shape.

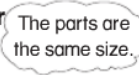
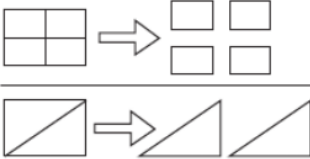
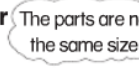
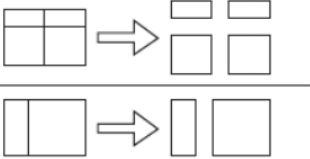
<p>Use 2  to find parts of .</p> 	<p>Draw a line to show the parts.</p> 
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More information on this strategy is available on Animated Math Model #50.

Lesson 12.8

Equal or Unequal Parts

Reason with shapes and their attributes.

<p>Equal Parts or Equal Shares  The parts are the same size.</p> 	<p>Unequal Parts or Unequal Shares  The parts are not the same size.</p> 
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

More information on this strategy is available on Animated Math Model #51.

Lesson 12.9

Halves

Reason with shapes and their attributes.

How can you show **halves**?

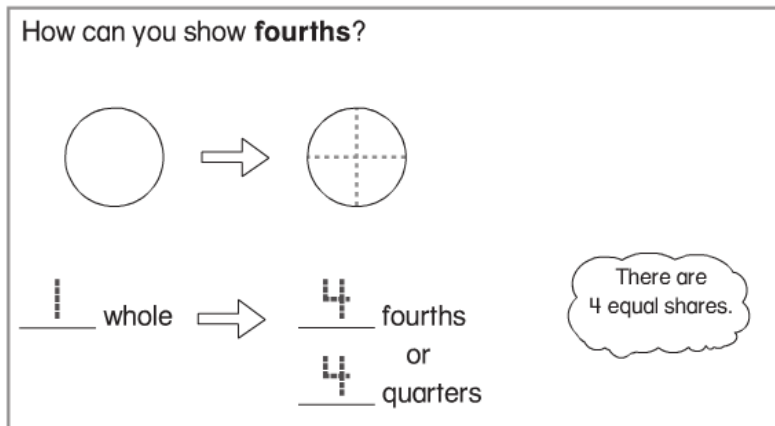
		
<u>1</u> whole		<u>2</u> equal shares or <u>2</u> halves

More information on this strategy is available on Animated Math Model #51.

Lesson 12.10

Fourths

Reason with shapes and their attributes.



More information on this strategy is available on Animated Math Model #51.

Vocabulary

Equal parts – parts of an object or group that have been divided equally into pieces

Equal shares – parts of a whole that are the same size

Fourth of – one of four equal parts of a whole

Fourths – four equal parts

Half of – one of two equal parts of a whole

Halves – two equal parts

Quarter of – one of four equal parts of a whole

Quarters -- four equal parts or shares

Sides – the line segments that form polygons

Unequal parts – parts of a whole that are not the same size

Unequal shares – parts of a whole that are not the same size

Vertices – the points where 2 or more edges of a three-dimensional shape meet or where 2 sides of a polygon meet