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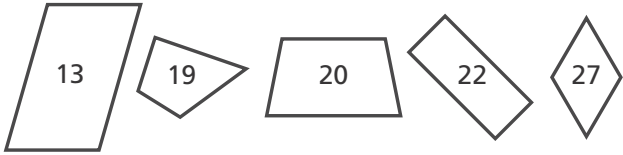
(PAGE 1 OF 2)

About the Mathematics in This Unit

Dear Family,

Our class is starting a new mathematics unit about geometry and measurement called *Properties of Polygons*. During this unit, students investigate the classification of polygons by attributes such as length of sides and size of angles. They solve problems about perimeter, a linear measure, and area, a two-dimensional measure.

Throughout the unit, students work toward these goals:

Benchmarks/Goals	Examples																				
Classify polygons by their attributes, and know that some quadrilaterals can be classified in more than one way.	<p>Which of these figures are parallelograms? How do you know?</p>  <p>Figures 13, 22, and 27 are parallelograms. Each of these figures has two pairs of parallel sides.</p>																				
Identify and explain numerical patterns when comparing perimeters or areas of related rectangles.	<table border="1"> <thead> <tr> <th></th> <th>Dimensions of Rectangle</th> <th>Perimeter</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>1 Original</td> <td>$2\frac{1}{2}$ in. \times 6 in.</td> <td>17 in</td> <td>15 sq in</td> </tr> <tr> <td>2 All sides \times 2</td> <td>5 \times 12</td> <td>34 in</td> <td>60 sq in</td> </tr> <tr> <td>3 All sides \times 3</td> <td>$7\frac{1}{2}$ \times 18</td> <td>51 in</td> <td>135 sq in</td> </tr> <tr> <td>4 All sides \times 4</td> <td>10 \times 24</td> <td>68 in</td> <td>240 sq in</td> </tr> </tbody> </table>		Dimensions of Rectangle	Perimeter	Area	1 Original	$2\frac{1}{2}$ in. \times 6 in.	17 in	15 sq in	2 All sides \times 2	5 \times 12	34 in	60 sq in	3 All sides \times 3	$7\frac{1}{2}$ \times 18	51 in	135 sq in	4 All sides \times 4	10 \times 24	68 in	240 sq in
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(PAGE 2 OF 2)

About the Mathematics in This Unit

In our math class, students spend time discussing problems in depth and are asked to share their reasoning and solutions. It is important that children solve math problems in ways that make sense to them. At home, encourage your child to explain the math thinking that supports those solutions.

Please look for more information and activities about *Properties of Polygons* that will be sent home in the coming weeks.