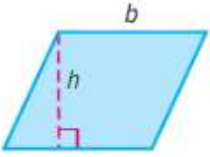
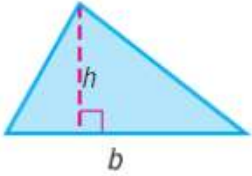
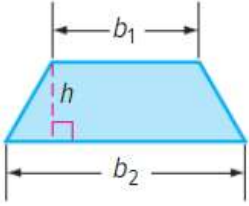
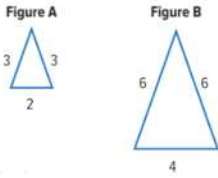
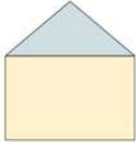
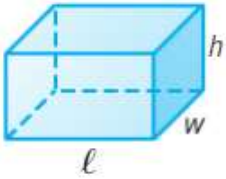
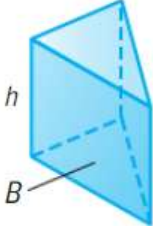
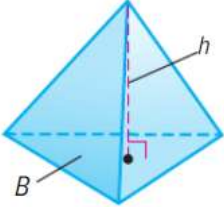
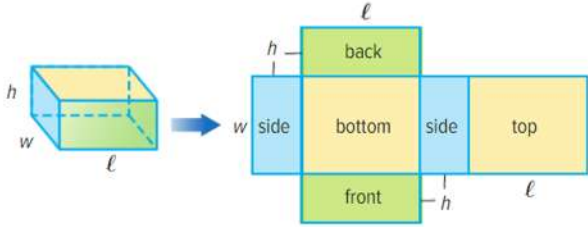
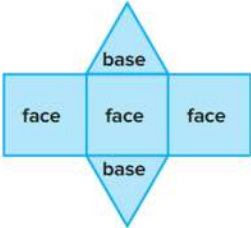


**MOE Exam 1 – Grade6 – Math – T erm 3 - 2019/2020**

Lesson	Shape	Formula	Missing Dimension
Area of Parallelograms		$A = b \times h$	$b = A \div h$ $h = A \div b$
Area of Triangle		$A = \frac{1}{2} \times b \times h$ or $A = \frac{b \times h}{2}$	$b = \frac{2 \times A}{h}$ $h = \frac{2 \times A}{b}$
Area of Trapezoids		$A = \frac{1}{2} h(b_1 + b_2)$	$h = \frac{2 \times A}{b_1 + b_2}$
Changes in Dimensions		<p>The <b>perimeter</b> of the polygon changes by a factor of x.</p> <p>The <b>area</b> of the polygon changes by x.x or <math>x^2</math></p>	
Polygons on the Coordinate Plane	<p>Use the coordinates to find the length of each side of the rectangle.</p> <p>L(3, 3), M(3, 5), N(7, 5), P(7, 3)</p>	<p>LM = 5-3 = 2, NP = 5-3 = 2</p> <p>MN = 7-3 = 4, LP = 7-3 = 4</p>	<p><b>Perimeter</b> 2 + 2 + 4 + 4 = 12</p> <p><b>Area</b> 2 x 4 = 8</p>
Area of Composite Figures		<ol style="list-style-type: none"> <li>Find the area1</li> <li>Find the area2</li> <li>A1 + A2</li> </ol>	
Volume of Rectangular Prisms		$V = \ell w h$ or $V = B h$	$L = \frac{V}{w \times h}$ $h = \frac{V}{L \times w}$ $w = \frac{V}{L \times h}$

<p>Volume of <b>Triangular Prisms</b></p>		$V = B h$ $V = \left(\frac{1}{2} \times b \times h\right) \times h$	$h = \frac{2 \times V}{b \times h}$
<p>Volume of <b>Pyramids</b></p>		$V = \frac{1}{3} B h$ <p>If the base is <b>rectangle</b>:</p> $V = \frac{1}{3} \times b \times h \times h$ $V = \frac{b \times h \times h}{3}$ <p>If the base is <b>triangle</b>:</p> $V = \frac{1}{3} \times \left(\frac{1}{2} \times b \times h\right) \times h$ $V = \frac{b \times h \times h}{6}$	<p>If the base is <b>rectangle</b>:</p> $h = \frac{3 \times v}{b \times h}$ <p>If the base is <b>triangle</b>:</p> $h = \frac{6 \times v}{b \times h}$
<p>Surface Area of <b>Rectangular Prisms</b></p>		$S.A. = 2\ell h + 2\ell w + 2hw$	
<p>Surface Area of <b>Triangular Prisms</b></p>		<p>Find the area of <b>2 triangles</b> and <b>3 rectangles</b> then <b>add</b> all the areas.</p>	<p>Area of triangles = <math>\frac{1}{2} \times b \times h</math></p> <p>Area of rectangle = <math>b \times h</math></p>