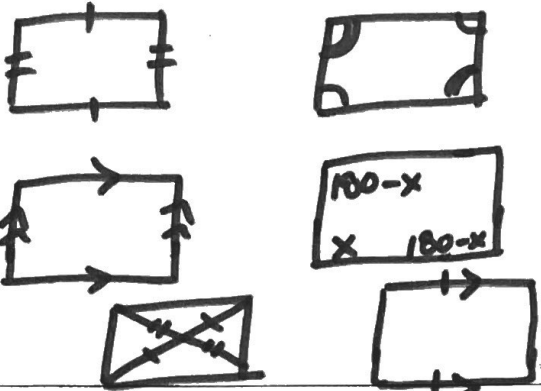



5.4 Quiz Review Recap

Properties	Ways to prove
<p>Parallelogram:</p> <ol style="list-style-type: none"> <li>1. Opposite sides <math>\cong</math></li> <li>2. opp. <math>\angle</math>'s <math>\cong</math></li> <li>3. opp. sides <math>\parallel</math></li> <li>4. consecutive <math>\angle</math>'s supp.</li> <li>5. diagonals bisect each other</li> </ol>	
<p>Rectangle:</p> <ol style="list-style-type: none"> <li>6. diagonals are <math>\cong</math></li> <li>7. 4 right <math>\angle</math>'s</li> </ol>	<ol style="list-style-type: none"> <li>1. Prove a property of a parallelogram. (1)</li> <li>2. Prove a property of a rectangle. (1)</li> </ol>
<p>Rhombus:</p> <ol style="list-style-type: none"> <li>6. diagonals are <math>\perp</math></li> <li>7. diagonals bisect opp. <math>\angle</math>'s</li> <li>8. All 4 sides <math>\cong</math>.</li> </ol>	<ol style="list-style-type: none"> <li>1. Prove a property of a parallelogram. (1)</li> <li>2. Prove a property of a rhombus (1).</li> </ol>
<p>How many properties does a square have?</p> <p style="text-align: center;">10</p> <p>(everything from parallelogram, rectangle, &amp; rhombus)</p>	<ol style="list-style-type: none"> <li>1. Prove a property of  (1)</li> <li>2. ... rectangle (1)</li> <li>3. ... Rhombus (1)</li> </ol>

<p>Distance Formula:</p> $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	<p>Why do we use it?</p> <p>To conclude if opposite sides are <math>\cong</math>.</p>
<p>* Slope Formula:</p> $m = \frac{y_2 - y_1}{x_2 - x_1} \quad \begin{matrix} \text{(rise)} \\ \text{(run)} \end{matrix}$	<p>Why do we use it?</p> <p>To conclude if opp. sides are <math>\parallel</math> or if diagonals are <math>\perp</math>.</p>
<p>* Midpoint Formula:</p> $\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) = (x, y)$	<p>Why do we use it?</p> <p>To see if diagonals have the same midpoint &amp; bisect each other</p>
<p>Theorems that prove lines parallel:</p> <p><u>CONVERSE</u> <math>\Leftarrow</math></p>	<ol style="list-style-type: none"> <li>1. Alt. int. <math>\angle</math>'s *</li> <li>2. Alt. Ext <math>\angle</math>'s</li> <li>3. Corresponding <math>\angle</math>'s</li> <li>4. Same side int <math>\angle</math>'s</li> </ol>
<p>What theorems prove triangles congruent?</p>	<ol style="list-style-type: none"> <li>1. SAS</li> <li>2. SSS</li> <li>3. ASA</li> <li>4. AAS</li> <li>5. HL</li> </ol>