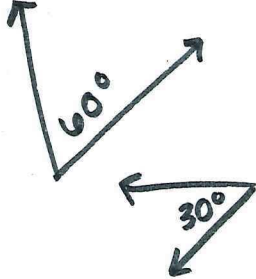
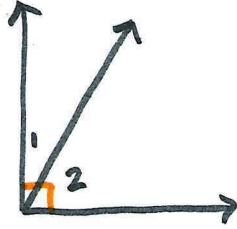
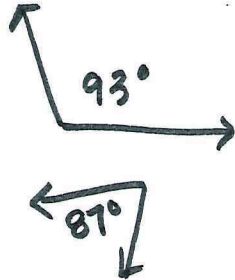
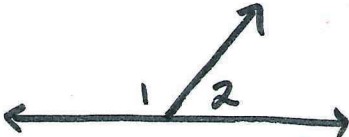
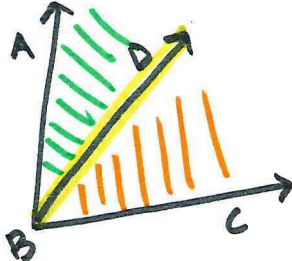
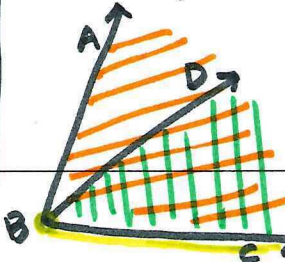
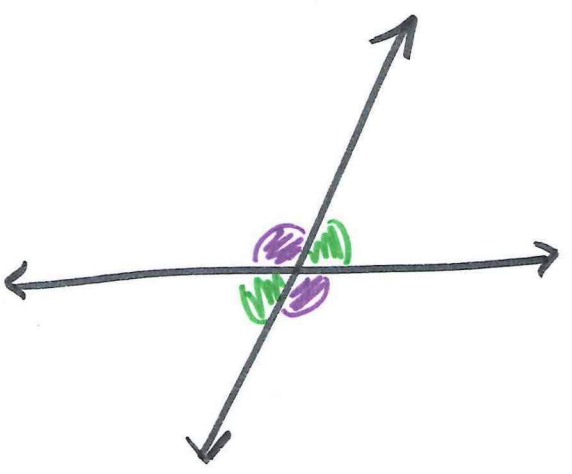


DESCRIBE ANGLE PAIR RELATIONSHIPS

Vocabulary	Definition	Example	
<p>COMPLEMENTARY ANGLES</p>	<p>Two angles whose sum is <math>90^\circ</math>.</p> $\angle 1 + \angle 2 = 90^\circ$		
<p>SUPPLEMENTARY ANGLES</p>	<p>Two angles whose sum is <math>180^\circ</math>.</p> $\angle 1 + \angle 2 = 180^\circ$		 <p>↪ 2 angles that form a line</p>
<p>ADJACENT ANGLES</p>	<p>Two angles that share a <u>common vertex</u> <sup>and</sup> <u>side</u> but have <u>no common interior points</u>.</p> <p>↪ rays</p>		<p><math>\angle ABD</math> and <math>\angle DBC</math> are adjacent <math>\angle</math>s.  <math>\overrightarrow{BD}</math> is the common side.  <math>B</math> is the common vertex.</p> <p>Non example:</p>  <ul style="list-style-type: none"> <li>- common vertex <math>B</math></li> <li>- common side <math>\overrightarrow{BC}</math></li> <li>- They have common interior points (overlap)</li> </ul> <p><b>NOT ADJACENT</b></p>



$$\begin{aligned} \square &= \square \\ \square &= \square \end{aligned}$$

Vertical  $\angle$ s ( $\cong$ )

$$\square + \square = 180^\circ$$

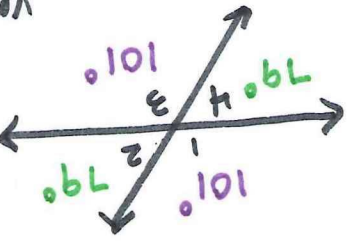
Linear Pairs (Supplementary)

VERTICAL ANGLES  
VA

congruent  
 $\angle 1 \cong \angle 3 \rightarrow m\angle 1 = m\angle 3$   
 $\angle 2 \cong \angle 4 \rightarrow m\angle 2 = m\angle 4$

What is the angle pair relationship?

Two angles are vertical if their sides form two pairs of opposite rays.  
*formed by 2 lines intersecting*



Vertical  $\angle$ s (VA)  
 $\angle 1$  and  $\angle 3$   
 $\angle 2$  and  $\angle 4$

Linear Pairs (LP)  
 $\angle 1$  and  $\angle 2$   
 $\angle 1$  and  $\angle 4$   
 $\angle 2$  and  $\angle 3$   
 $\angle 3$  and  $\angle 4$

LINEAR PAIR  
LP

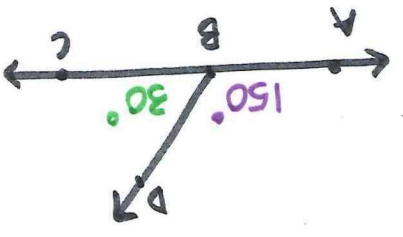
Supplementary Angles

$$m\angle 1 + m\angle 2 = 180^\circ$$

What is the angle pair relationship?

Two adjacent angles are a linear pair if their uncommon sides are opposite rays.  $\rightarrow$  forms a line

*next to each other*



$$m\angle ABD + m\angle DBC = m\angle ABC (180^\circ)$$

$$150 + 30 = 180 \checkmark$$

$\angle ABD$  and  $\angle DBC$  are linear pairs (LP)