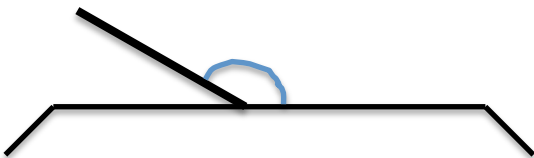


## Balanced Math Planning

**Date:** Week of October 17-21, 2011 **Amount of Time:** Approximately 60 minutes

<b>Strand:</b> Geometry and Spatial Sense – Geometric Relations	
<b>Expectation:</b> solve angle-relationship problems using intersecting lines (e.g., finding complementary and supplementary angles or opposite angles)	
<b>Big Idea:</b> Angle relationships using intersecting lines	
<b>Minds On</b>	
<b>Open Question</b>	Create a Venn diagram for straight angle and right angle – identify similarities and differences.
<b>Action</b> Balanced Math Centres	
<b>SMARTboard</b>	SMARTboard lessons (2): Create file that has pairs of complementary and supplementary angles to be measured and matched using SMARTboard protractor <i>Resource:</i> self-made
<b>Math Facts</b>	Worksheet from Ontario Math Workbook – p. 50 “Angle Properties” - need protractors for this sheet <i>Resources:</i> Ontario Math Workbook
<b>Math Games</b>	Board Game: “Angles of Rotation” - students will identify angles and rotate counter to demonstrate understanding Materials: counters with arrows drawn on them, dice, gameboards <i>Resource:</i> Math Grid Games p.51
<b>Shared Problem Solving (2)</b>	Parallel Tasks: 1) The measure of an angle is 10 more than the measure of its complement. What is the measure of each angle? 2) The measure of an angle is 40 more than the measure of its supplement. What is the measure of each angle? <i>Resource:</i> modified questions from Math Power 8
	Lounge Chair Question: (diagram of side view of a lawn chair) What is the angle of your favourite position on a lawn chair at the beach? What is the supplementary angle of your favourite position?  <i>Resource:</i> modified question from Math Makes Sense 8
<b>Guided Problem Solving</b>	via projector: A line diagram with hidden opposite, complementary, supplementary, and right angles; students will be prompted to identify the angles from the diagram. <i>Resource:</i> modified question from Math Makes Sense 8
<b>Laptop Activities</b>	There will be 2 lessons labeled under Balanced Math file: Both will be accessed from “Complementary and Supplementary Angles” to compute angle complements and supplements <i>Resource:</i> SMART Exchange

**Consolidation**

**Consolidation:** Think-Pair-Share for Shared Problem Solving (lawn chair question); have students discuss their individual answers. Ask for volunteers to share solutions with the class.

**Journal:** Draw a diagram that contains at least one pair of complementary angles and one pair of supplementary angles. Explain how you know the angles are complementary or supplementary.