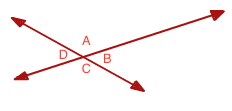
# Macintosh HD:Users:Amit:Progs:ExcelerateLive:HTML:ml.png Excelerate Lesson Plan

**Lines and Angles**

**About These Problems**

**These questions often involve a pair of intersecting lines and involve you finding the angles between the intersection. The key thing about intersecting lines is that the angle on one side of a line adds up to 180 degrees and all the angles around an intersection add up to 360 degrees. Angles opposite each other in an intersection are called vertical angles.**



**Rules:**

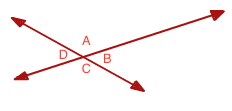
A = C and B = D (vertical angles)

A + D = A + B = 180 degrees

B + C = D + C = 180 degrees

A + B + C + D = 360 degrees

**Question.**  Based upon the figure below if A = 140 degrees what is D + C/2?



1. 160 degrees
2. 150 degrees
3. 115 degrees
4. 120 degrees
5. 110 degrees

**Answer.** **5**: You know that A + D = 180 so D = 40 degrees and C/2 is 140/2. 70 + 40 = 110 degrees.