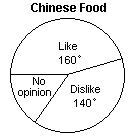
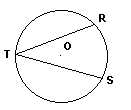
ASSIGNMENT (Unit 4/ Day 1) Math III – Unit 2

Day 1: Angles of Circles

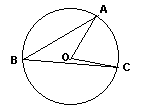
1. In a recent poll, 600 people were asked whether they liked Chinese food.  A circle graph was constructed to show the results.  The central angles for two of the three sectors are shown in the accompanying diagram.  How many people had no opinion?



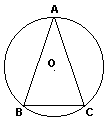
1. In the diagram of circle *O*, the measure of arc http://www.castlelearning.com/review/Courses/geometry/arcrs.gif?v=20110915021737is 64°. What is m∠*RTS*?



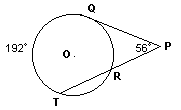
1. In the diagram of circle *O*, m∠*ABC* = 38. What is m∠*AOC*?



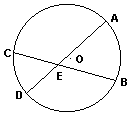
1. In the diagram, isosceles triangle *ABC* is inscribed in circle *O* and m∠*BAC* = 40. Find the measure of arc http://www.castlelearning.com/review/Courses/geometry/arcac.gif?v=20110915013054.



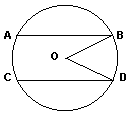
1. In the diagram of circle *O*, http://www.castlelearning.com/review/Courses/geometry/segpq.gif?v=20010730052142 is tangent to *O* at *Q* and http://www.castlelearning.com/review/Courses/geometry/segprt.gif?v=20010731110954 is a secant.  If m∠*P* = 56 and mhttp://www.castlelearning.com/review/Courses/geometry/arcqt.gif?v=20110915021736 = 192, find mhttp://www.castlelearning.com/review/Courses/geometry/arcqr.gif?v=20110915021736.

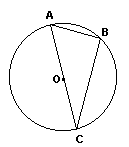


1. In the diagram of circle *O*, mhttp://www.castlelearning.com/review/Courses/geometry/arc-ab.gif?v=20041020050400 = 64 and m∠*AEB* = 52. What is the measure of http://www.castlelearning.com/review/Courses/geometry/arc-cd.gif?v=20101008032405?



1. In the diagram of circle *O*, chord http://www.castlelearning.com/review/Courses/geometry/segab.gif?v=20010728112250 is parallel to chord http://www.castlelearning.com/review/Courses/geometry/segcd.gif?v=20010728112330.  If mhttp://www.castlelearning.com/review/Courses/geometry/arc-ac.gif?v=20040204014248 = 100, find m∠*BOD*.



1. In the diagram of circle *O*, the ratio of http://www.castlelearning.com/review/Courses/geometry/arc-bc.gif?v=20041020050338tohttp://www.castlelearning.com/review/Courses/geometry/arc-ab.gif?v=20041020050400 is 2:1. What is m∠*ACB*? 

1. In a circle, an inscribed angle intercepts an arc whose measure is (14*x* − 2)°. Express, in terms of *x*, the number of degrees in the measure of the inscribed angle.