

Circles 3 – “The Angle in a Semicircle is a Right Angle”

Applet: <http://www.waldomaths.com/Circle6NLW.jsp>

Video: <http://www.waldomaths.com/video/CircIsos01/CircIsos01.jsp>

Questions (NB. None of these diagrams are to scale, so measuring angles won't help!
You may have to use other rules about angles and circles as well)

- 1 In diagram A, angle AGE has been marked as a right angle. See how many more right angles you can see.
- 2 In diagram B calculate all the angles marked a – d.

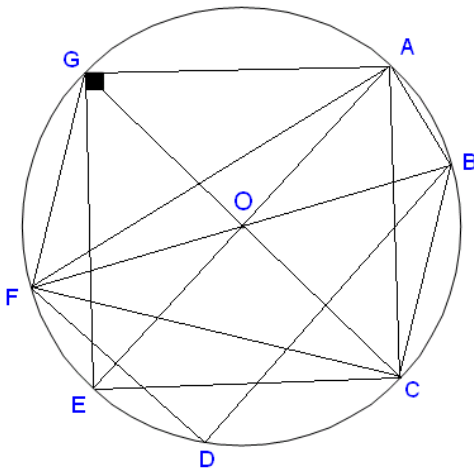


Diagram A

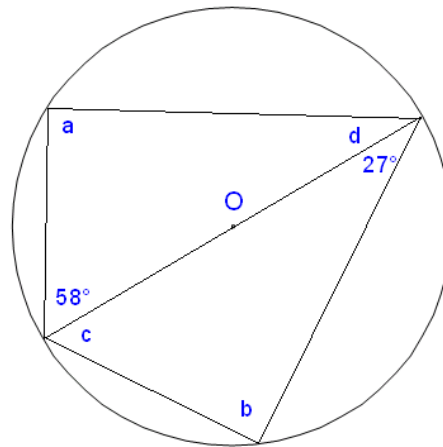


Diagram B

- 3 In diagram C, calculate the sizes of the angles marked g, h, j.
- 4* In diagram D, calculate angle k. [You will need to calculate other angles first]

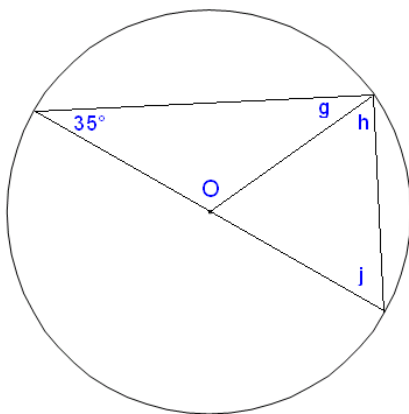


Diagram C

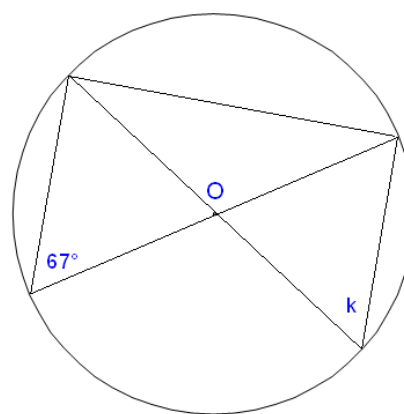


Diagram D

Answers: 1 8 in all (angles AGE, ACE, BCF, BDF, CEG, CFG, FAB, CAG)

2 a = 90°, b = 90°, c = 63°, d = 32°

3 g = 35°, h = 55°, j = 55° 4* k = 67°