

Circles 4 – “Angles in the Same Segment are Equal”

Applet: <http://www.waldomaths.com/Circle1NLW.jsp> [2nd theorem]

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, find the sizes of angles a - f.
- 2 In diagram B calculate the angles marked g and h.

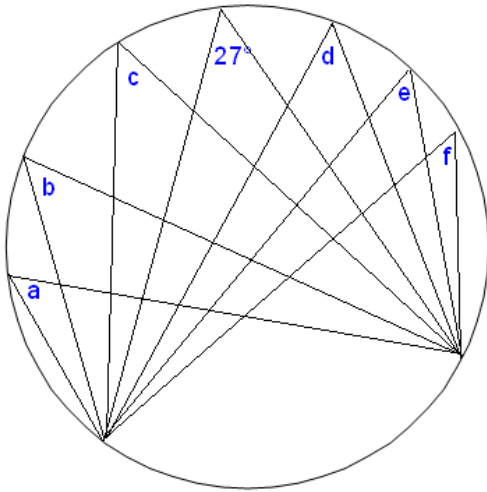


Diagram A

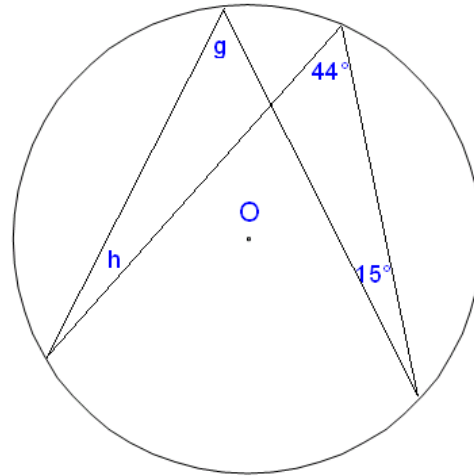


Diagram B

- 3 In diagram C, calculate the sizes of the angles marked j and k.
- 4 In diagram D, calculate angles m and n.

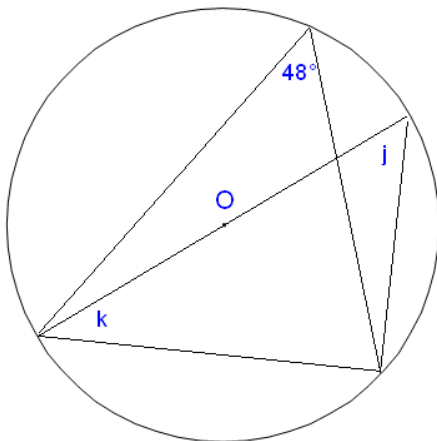


Diagram C

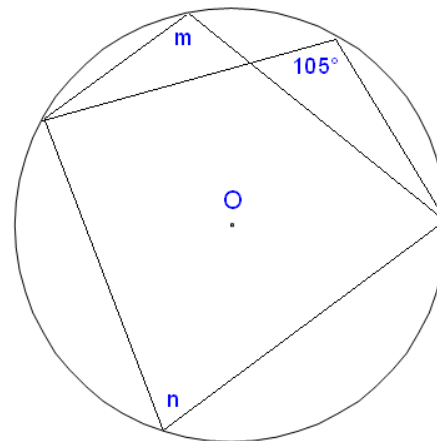


Diagram D

Answers: **1** all = 27° **2** $g = 44^\circ$, $h = 15^\circ$
3 $j = 48^\circ$, $k = 42^\circ$ **4** $m = 105^\circ$, $n = 75^\circ$