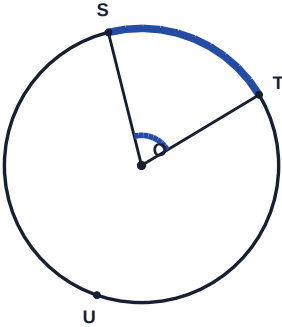


Arcs and Central Angles

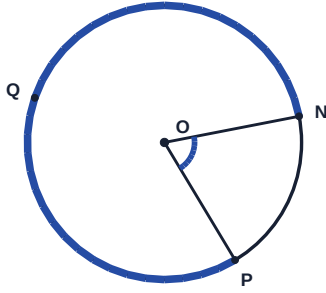
Name each marked figure or use the sector measures to find the requested arc and central angle.

Name figures

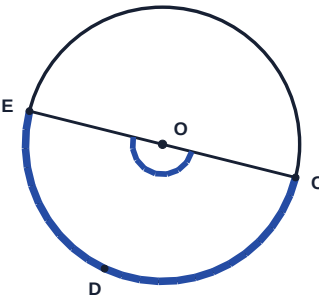
1. Name the marked minor arc and the central angle.



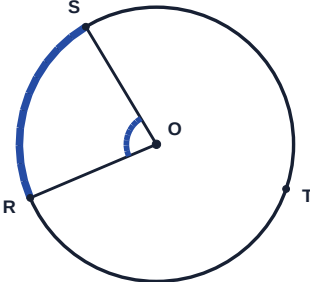
2. Name the marked major arc and the central angle.



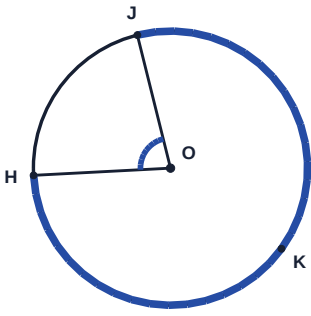
3. Name the marked semicircle arc and the central angle.



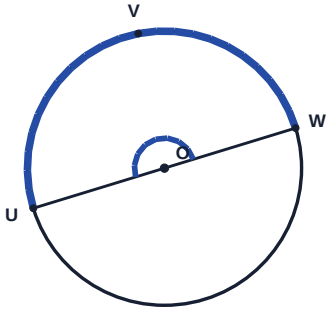
4. Name the marked minor arc and the central angle.



5. Name the marked major arc and the central angle.



6. Name the marked semicircle arc and the central angle.

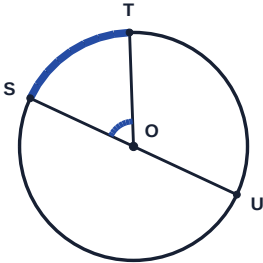


Arcs and Central Angles

Name each marked figure or use the sector measures to find the requested arc and central angle.

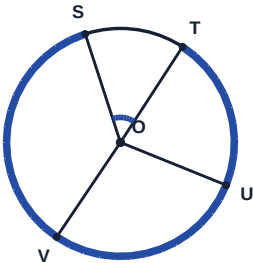
Find measures

7. Find minor arc ST and the central angle SOT.



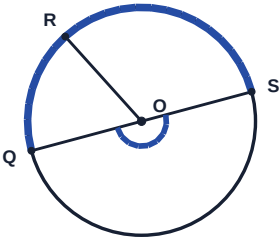
Given: Angle TOU = 117 deg; Angle UOS = 180 deg.

8. Find major arc TUS and the smaller central angle SOT.



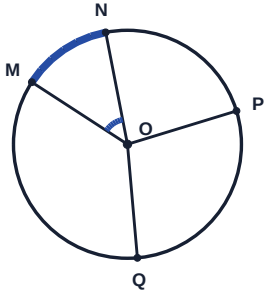
Given: Angle TOU = 79 deg; Angle UOV = 102 deg; Angle VOS = 128 deg.

9. Find semicircle arc QRS and the central angle SOQ.



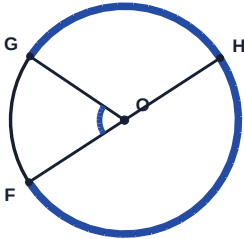
Given: Angle QOR = 63 deg; Angle ROS = 117 deg.

10. Find minor arc MN and the central angle MON.



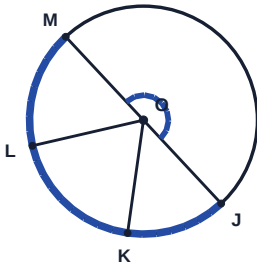
Given: Angle NOP = 84 deg; Angle POQ = 102 deg; Angle QOM = 128 deg.

11. Find major arc GHF and the smaller central angle FOG.



Given: Angle GOH = 113 deg; Angle HOF = 180 deg.

12. Find semicircle arc JKM and the central angle MOJ.



Given: Angle JOK = 51 deg; Angle KOL = 69 deg; Angle LOM = 60 deg.

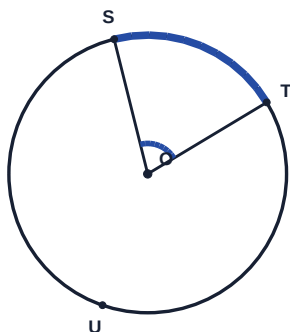
Arcs and Central Angles

Worked Answer Key

Name each marked figure or use the sector measures to find the requested arc and central angle.

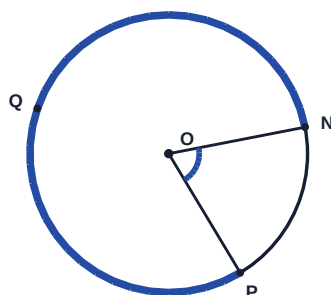
Solutions

1. Name the marked minor arc and the central angle.



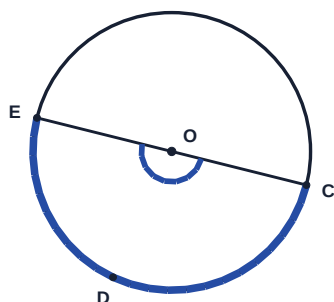
Arc ST or TS; angle SOT or TOS.
A minor arc may use its two endpoints.

2. Name the marked major arc and the central angle.



Arc PQN or NQP; angle NOP or PON.
A major arc uses three letters to select its path.

3. Name the marked semicircle arc and the central angle.



Arc CDE or EDC; angle COE or EOC.
A semicircle arc uses three letters to select its path.

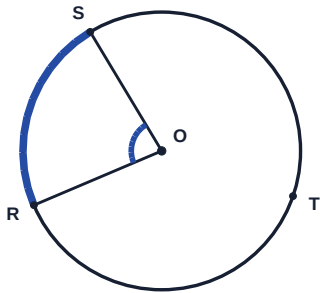
Arcs and Central Angles
Worked Answer Key

Name each marked figure or use the sector measures to find the requested arc and central angle.

Solutions

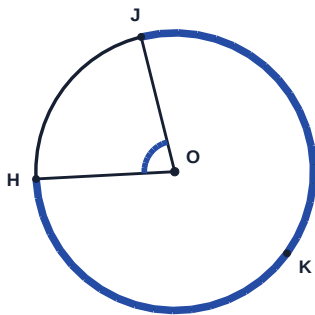
4. Name the marked minor arc and the central angle.

Arc RS or SR; angle ROS or SOR.
A minor arc may use its two endpoints.



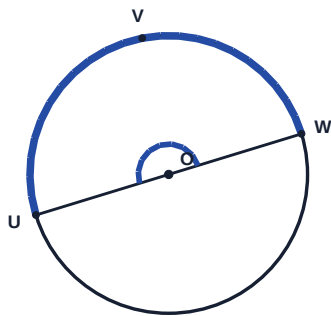
5. Name the marked major arc and the central angle.

Arc JKH or HKJ; angle HOJ or JOH.
A major arc uses three letters to select its path.



6. Name the marked semicircle arc and the central angle.

Arc UVW or WVU; angle UOW or WOU.
A semicircle arc uses three letters to select its path.



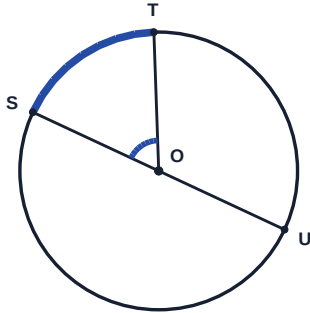
Arcs and Central Angles

Worked Answer Key

Name each marked figure or use the sector measures to find the requested arc and central angle.

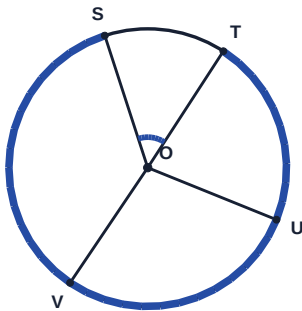
Solutions

7. Find minor arc ST and the central angle SOT.



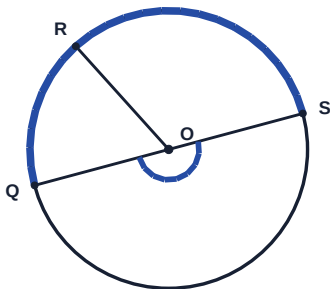
Known sectors: Angle TOU = 117 deg; Angle UOS = 180 deg.
 Missing sector = $360 - (117 + 180) = 63$ deg.
 Minor arc ST = 63 deg and central angle SOT = 63 deg.
Arc ST = 63 deg; angle SOT = 63 deg.

8. Find major arc TUS and the smaller central angle SOT.



Known sectors: Angle TOU = 79 deg; Angle UOV = 102 deg; Angle VOS = 128 deg.
 Missing sector = $360 - (79 + 102 + 128) = 51$ deg.
 Major arc TUS = $360 - 51 = 309$ deg; smaller central angle SOT = 51 deg.
Arc TUS = 309 deg; angle SOT = 51 deg.

9. Find semicircle arc QRS and the central angle SOQ.



Known sectors: Angle QOR = 63 deg; Angle ROS = 117 deg.
 Missing sector = $360 - (63 + 117) = 180$ deg.
 Semicircle QRS = 180 deg and central angle SOQ = 180 deg.
Arc QRS = 180 deg; angle SOQ = 180 deg.

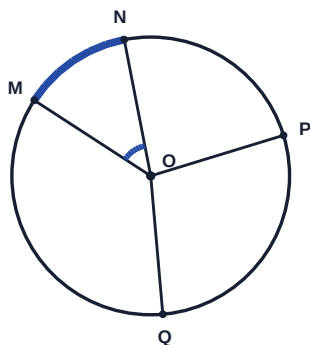
Arcs and Central Angles

Worked Answer Key

Name each marked figure or use the sector measures to find the requested arc and central angle.

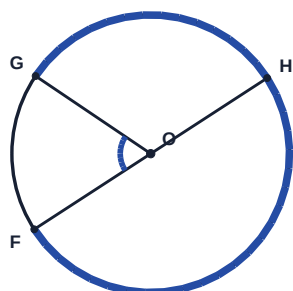
Solutions

10. Find minor arc MN and the central angle MON.



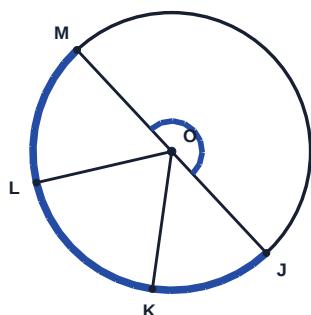
Known sectors: Angle NOP = 84 deg; Angle POQ = 102 deg; Angle QOM = 128 deg.
 Missing sector = $360 - (84 + 102 + 128) = 46$ deg.
 Minor arc MN = 46 deg and central angle MON = 46 deg.
Arc MN = 46 deg; angle MON = 46 deg.

11. Find major arc GHF and the smaller central angle FOG.



Known sectors: Angle GOH = 113 deg; Angle HOF = 180 deg.
 Missing sector = $360 - (113 + 180) = 67$ deg.
 Major arc GHF = $360 - 67 = 293$ deg; smaller central angle FOG = 67 deg.
Arc GHF = 293 deg; angle FOG = 67 deg.

12. Find semicircle arc JKM and the central angle MOJ.



Known sectors: Angle JOK = 51 deg; Angle KOL = 69 deg; Angle LOM = 60 deg.
 Missing sector = $360 - (51 + 69 + 60) = 180$ deg.
 Semicircle JKM = 180 deg and central angle MOJ = 180 deg.
Arc JKM = 180 deg; angle MOJ = 180 deg.