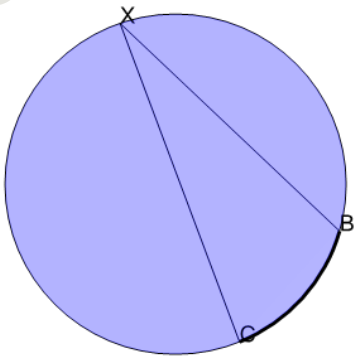
Math worksheet on *'Geometry of Circles - Rule for Intersected Arc from Inscribed Angle (Level 1)'*. Part of a broader unit on *'Geometry - Intermediate - Intro'*

Learn online: app.mobius.academy/math/units/geometry_intermediate_intro/

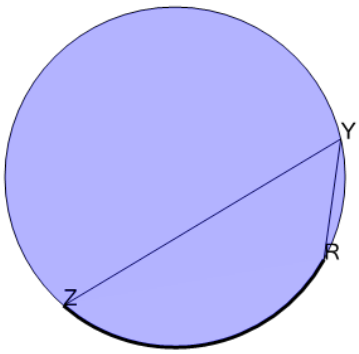
**1**




What is known about the length (in degrees) of intersected arc BC compared to angle BXC?

- **a** Nothing, BC and BXC are not subtended by the same arc
- **b** BC is twice BXC
- **c** BC is half BXC
- **d** BC and BXC add to
- **e** BC is the same as BXC
- **f** BC and BXC add to 90º

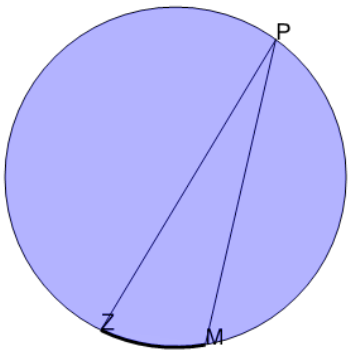
**2**




What is known about the length (in degrees) of intersected arc RZ compared to angle RYZ?

- **a** RZ and RYZ add to
- **b** RZ is twice RYZ
- **c** RZ is the same as RYZ
- **d** RZ and RYZ add to 90º
- **e** RZ and RYZ add to
- **f** Nothing, RZ and RYZ are not subtended by the same arc

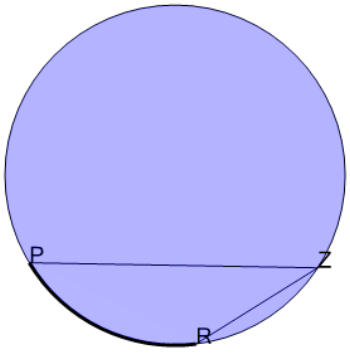
**3**




What is known about the length (in degrees) of intersected arc MZ compared to angle MPZ?

- **a** MZ is twice MPZ
- **b** MZ and MPZ add to
- **c** MZ and MPZ add to 90º
- **d** MZ is half MPZ
- **e** MZ and MPZ add to
- **f** Nothing, MZ and MPZ are not subtended by the same arc

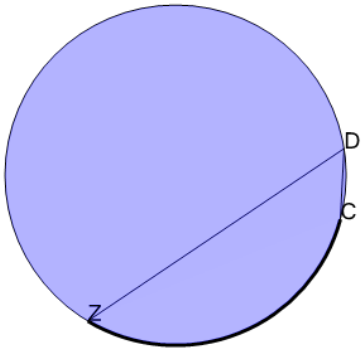
**4**




What is known about the length (in degrees) of intersected arc RP compared to angle RZP?

- **a** RP and RZP add to
- **b** Nothing, RP and RZP are not subtended by the same arc
- **c** RP is the same as RZP
- **d** RP and RZP add to 90º
- **e** RP is twice RZP
- **f** RP is half RZP

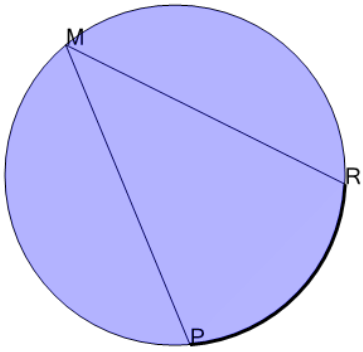
**5**




What is known about the length (in degrees) of intersected arc CZ compared to angle CDZ?

- **a** Nothing, CZ and CDZ are not subtended by the same arc
- **b** CZ is the same as CDZ
- **c** CZ and CDZ add to 90º
- **d** CZ and CDZ add to
- **e** CZ is twice CDZ
- **f** CZ and CDZ add to

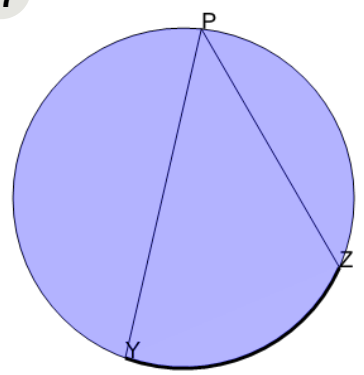
**6**




What is known about the length (in degrees) of intersected arc RP compared to angle RMP?

- **a** RP and RMP add to
- **b** RP is half RMP
- **c** RP and RMP add to
- **d** RP is twice RMP
- **e** Nothing, RP and RMP are not subtended by the same arc
- **f** RP and RMP add to 90º

**7**




What is known about the length (in degrees) of intersected arc ZY compared to angle ZPY?

- **a** ZY and ZPY add to 90º
- **b** ZY is twice ZPY
- **c** Nothing, ZY and ZPY are not subtended by the same arc
- **d** ZY is the same as ZPY
- **e** ZY is half ZPY
- **f** ZY and ZPY add to 360º