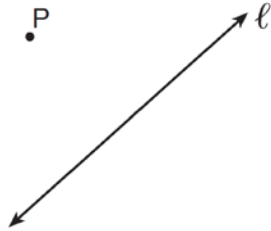


G.G.2: Planes: Know and apply that through a given point there passes one and only one plane perpendicular to a given line

- 1 In the diagram below, point P is not on line ℓ .



How many distinct planes that contain point P are also perpendicular to line ℓ ?

- 1) 1
 - 2) 2
 - 3) 0
 - 4) an infinite amount
- 2 Point P is on line m . What is the total number of planes that are perpendicular to line m and pass through point P ?
- 1) 1
 - 2) 2
 - 3) 0
 - 4) infinite
- 3 Point P lies on line m . Point P is also included in distinct planes Q , R , S , and T . At most, how many of these planes could be perpendicular to line m ?
- 1) 1
 - 2) 2
 - 3) 3
 - 4) 4
- 4 Point A is on line m . How many distinct planes will be perpendicular to line m and pass through point A ?
- 1) one
 - 2) two
 - 3) zero
 - 4) infinite

G.G.2: Planes: Know and apply that through a given point there passes one and only one plane perpendicular to a given line

Answer Section

- | | | |
|---|--------|---------------|
| 1 | ANS: 1 | REF: 081514ge |
| 2 | ANS: 1 | REF: 060918ge |
| 3 | ANS: 1 | REF: 011128ge |
| 4 | ANS: 1 | REF: 061310ge |