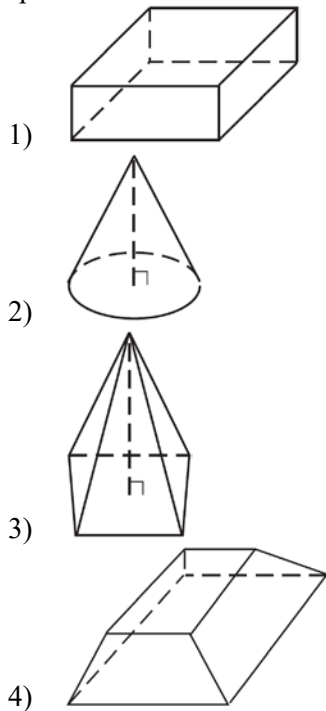


G.GMD.B.4: Cross-Sections of Three-Dimensional Objects

- 1 The cross section of a regular pyramid contains the altitude of the pyramid. The shape of this cross section is a
- 1) circle
 - 2) square
 - 3) triangle
 - 4) rectangle

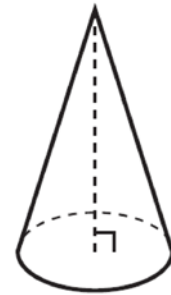
- 2 A plane intersects a hexagonal prism. The plane is perpendicular to the base of the prism. Which two-dimensional figure is the cross section of the plane intersecting the prism?
- 1) triangle
 - 2) trapezoid
 - 3) hexagon
 - 4) rectangle

- 3 Which figure can have the same cross section as a sphere?

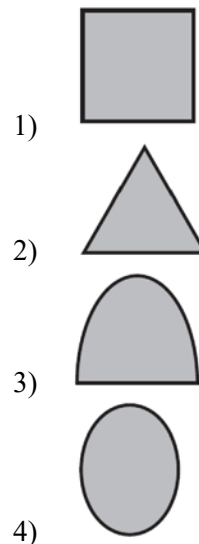


- 4 A two-dimensional cross section is taken of a three-dimensional object. If this cross section is a triangle, what can *not* be the three-dimensional object?
- 1) cone
 - 2) cylinder
 - 3) pyramid
 - 4) rectangular prism

- 5 William is drawing pictures of cross sections of the right circular cone below.



Which drawing can *not* be a cross section of a cone?



G.GMD.B.4: Cross-Sections of Three-Dimensional Objects

Answer Section

- | | | |
|---|--------|----------------|
| 1 | ANS: 3 | REF: 081613geo |
| 2 | ANS: 4 | REF: 011723geo |
| 3 | ANS: 2 | REF: 061506geo |
| 4 | ANS: 2 | REF: 081701geo |
| 5 | ANS: 1 | REF: 011601geo |