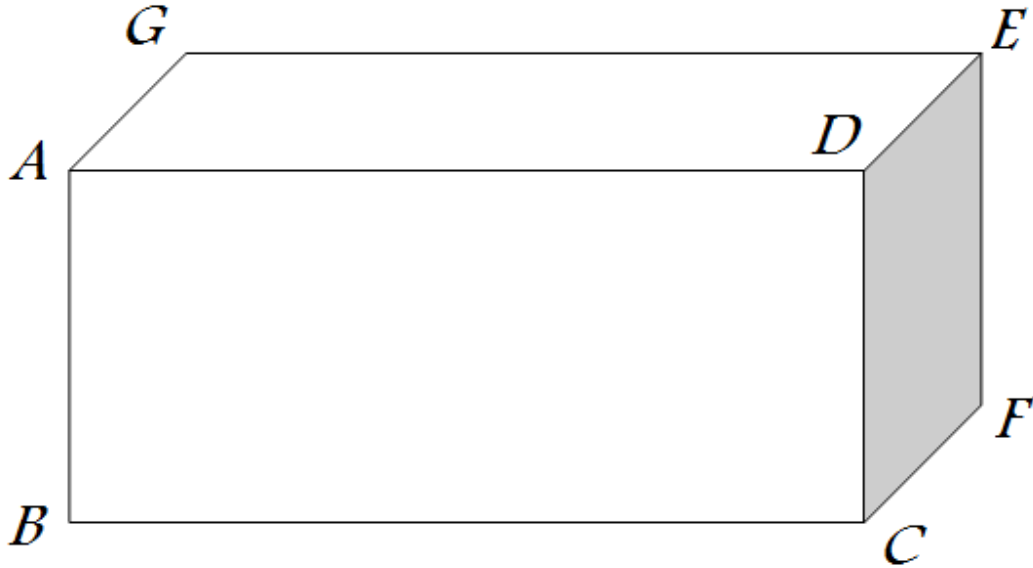


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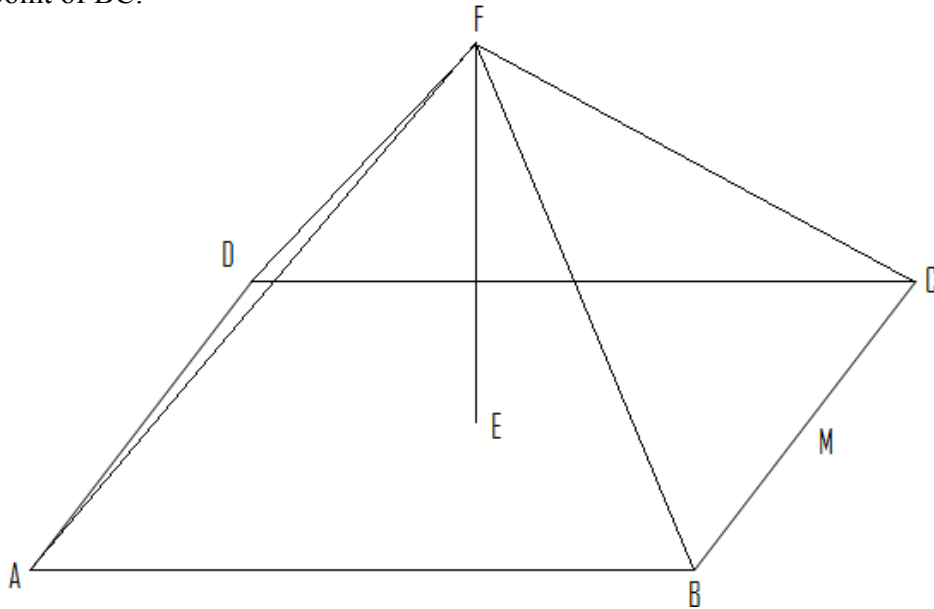
## QUIZ – 3D GEOMETRY

1. (50%) Given the following Cuboid.  $AB = AG = 9\text{cm}$ ,  $BC = 18\text{cm}$ :



- (10%) Find the Surface area of the cuboid.
- (10%) Find the Volume of the cuboid.
- (10%) Find the length of CG.
- (10%) Find the angle between CG and the base of the cuboid.
- (20%) 2 spheres whose radius is 3 are put inside the cuboid. Find the percentage of volume that the spheres occupy of the cuboid's volume.

2. (50%) Given the following Pyramid.  $AB = BC = 10\text{cm}$ ,  $EF = 8\text{cm}$ . M is the mid point of BC.



- a. (10%) Find the Surface area of the Pyramid.
- b. (10%) Find the Volume of the Pyramid.
- c. (10%) Find the angle between BF and the base of the Pyramid.
- d. (10%) Find the angle between FM and the base of the Pyramid.
- e. (10%) A cylinder with an equal volume has radius  $2\text{cm}$ , find its length.