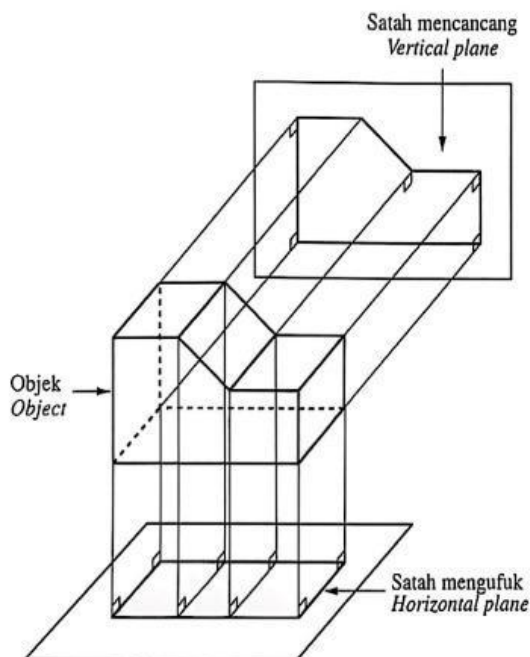


Nota Progresif

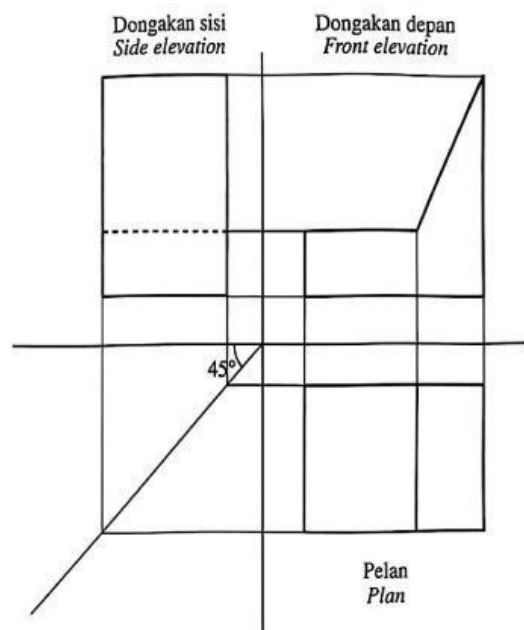
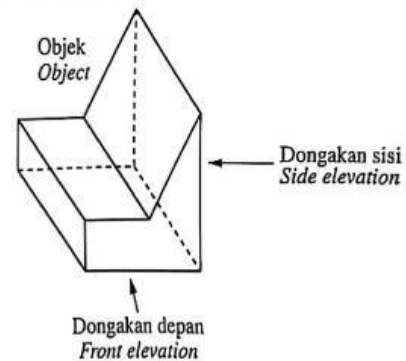
Unjuran Ortogon/Orthogonal Projections

- Satah ialah permukaan rata pada suatu objek.
A plane is the flat surface of an object.
 - Satah mengufuk/Horizontal plane
 - Satah mencancang/Vertical plane
 - Satah condong/Inclined plane
- Normal kepada suatu satah ialah garis lurus yang berserenjang atau bersudut tegak dengan sebarang garis pada satah tersebut.
A normal to a plane is a straight line that is perpendicular or that forms a right angle to any line on the plane.
- Unjuran ortogon ialah imej yang terbentuk pada suatu satah apabila unjuran garis dari objek berserenjang dengan satah tersebut.
Orthogonal projections are images formed on a plane when the projected line from an object is perpendicular to the plane.



Pelan dan Dongakan/Plans and Elevations

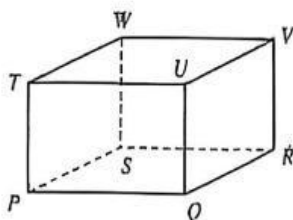
- Unjuran ortogon pada satah mengufuk yang dilihat dari pandangan atas dikenali sebagai pelan.
The orthogonal projection on a horizontal plane, which is seen from the top view, is known as a plan.
- Unjuran ortogon pada satah mencancang yang dilihat dari pandangan sisi atau pandangan depan dikenali sebagai dongakan.
The orthogonal projection on a vertical plane, which is seen from either the side view or the front view, is known as elevations.



Bahagian A

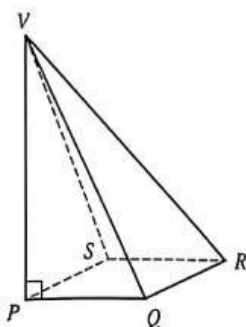
7.1 Unjuran Ortogon Orthogonal Projections

- 1 Rajah menunjukkan sebuah kuboid.
The diagram shows a cuboid.



Normal kepada satah PSWT ialah
The normal to the plane PSWT is

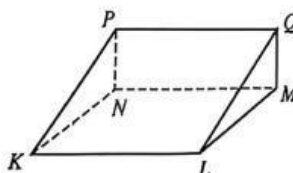
- A UQ
B WS
C RS
D UP
- 2 Rajah menunjukkan sebuah piramid.
The diagram shows a pyramid.



Antara berikut, yang manakah normal kepada satah PQRS?

Which of the following is the normal to the plane PQRS?

- A VP
B VQ
C VR
D VS
- 3 Rajah menunjukkan sebuah prisma.
The diagram shows a prism.

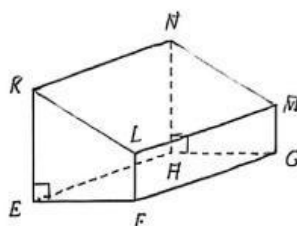


Antara satah berikut, yang manakah satah condong?

Which of the following planes is an inclined plane?

- A KLMN
B LMQ
C MNPQ
D KLQP

- 4 Rajah menunjukkan sebuah prisma.
The diagram shows a prism.

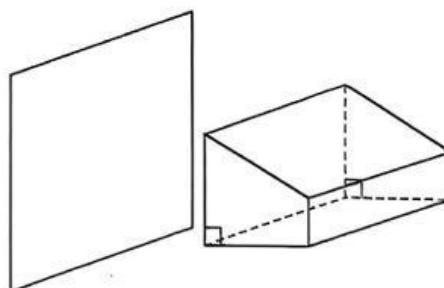


Antara satah berikut, yang manakah unjuran ortogon bagi satah KLMN pada satah mengufuk?

Which of the following planes is the orthogonal projection of the plane KLMN on a horizontal plane?

- A KEHN
B FGML
C EFGH
D GHNM

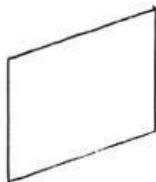
- 5 Rajah menunjukkan sebuah prisma dan satah mencancang.
The diagram shows a prism and a vertical plane.



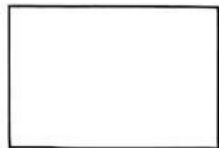
Antara berikut, yang manakah unjuran ortogon prisma itu pada satah mencancang?

Which of the following is the orthogonal projection of the prism on the vertical plane?

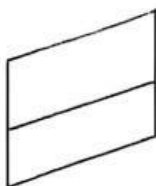
A



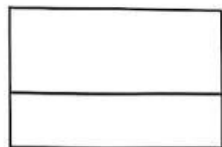
B



C

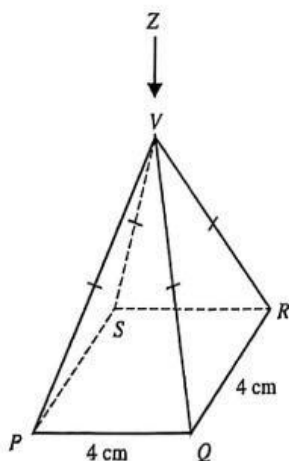


D

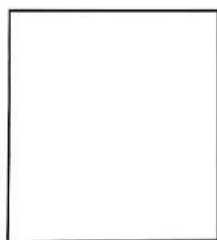


- 6 Unjuran ortogon objek berikut pada satah mengufuk sebagaimana dilihat dari arah Z ialah

The orthogonal projection of the object on a horizontal plane as viewed from Z is



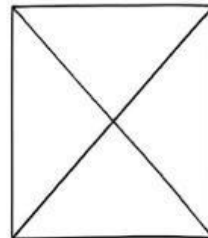
A



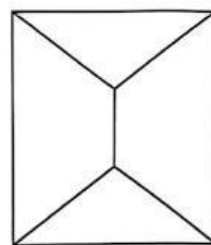
B



C

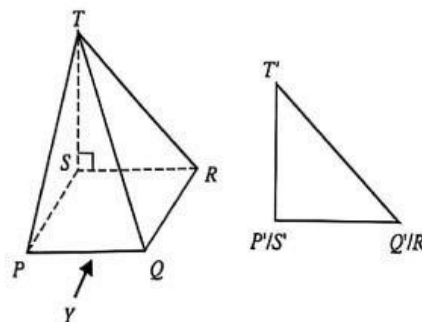


D



- 7 Rajah menunjukkan sebuah piramid dan unjuran ortogon piramid itu pada satah mencancang sebagaimana dilihat dari arah Y.

The diagram shows a pyramid and its orthogonal projection on a vertical plane as view from Y.



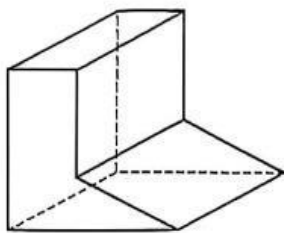
Antara berikut, yang manakah benar?

Which of the following is true?

- A $TP = T'P'$
- B $TS = T'S'$
- C $TQ = T'Q'$
- D $PR = P'R'$

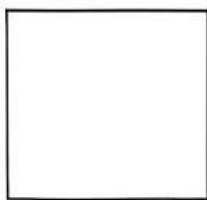
7.2 Pelan dan Dongakan Plans and Elevations

- 8 Rajah menunjukkan sebuah prisma.
The diagram shows a prism.

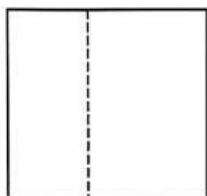


Pelan prisma itu ialah
The plan of the prism is

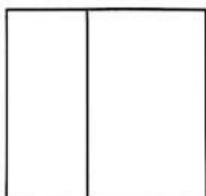
A



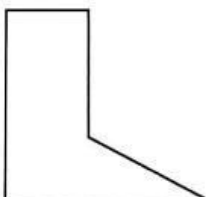
B



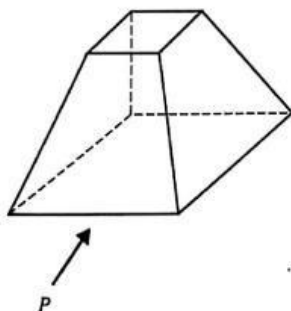
C



D

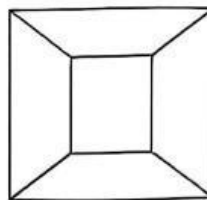


- 9 Rajah menunjukkan sebuah frustum piramid.
The diagram shows a frustum of a pyramid.

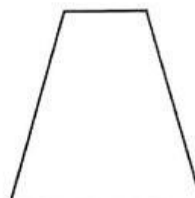


Antara berikut, yang manakah dongakan frustum itu sebagaimana dilihat dari P?
Which of the following is the elevation of the frustum as view from P?

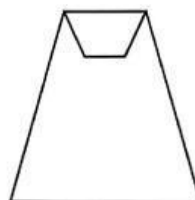
A



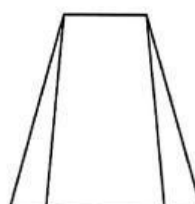
B



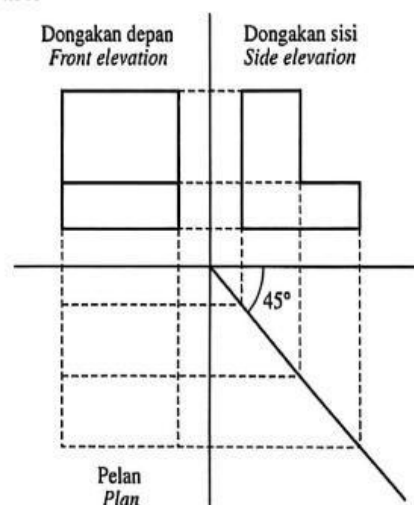
C



D



- 10 Rajah menunjukkan dongakan depan dan dongakan sisi bagi sebuah prisma tegak dengan tapak berbentuk segi empat tepat.
The diagram shows the front elevation and side elevation of a right prism with a rectangular base.



Antara berikut, yang manakah pelan bagi prisma itu?
Which of the following is the plan of the prism?

