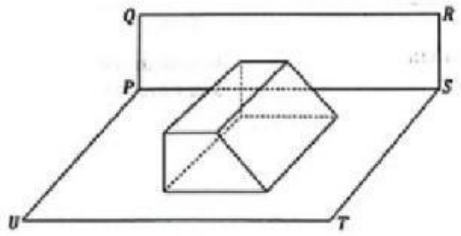
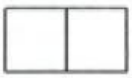
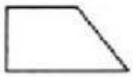
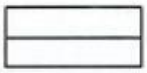
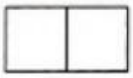
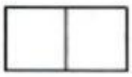
1 Rajah berikut menunjukkan sebuah prisma dengan trapezium sebagai keratan rentas seragamnya.
The following diagram shows a prism with trapezium as its uniform cross section.



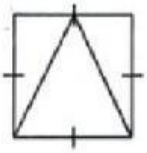
Tentukan unjuran ortogon prisma itu pada satah mencancang *PQRS* dan satah mengufuk *PSTU*.
Determine the orthogonal projection of the prism on the vertical plane PQRS and the horizontal plane PSTU.

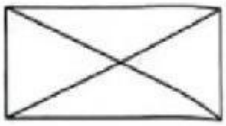
	Satah *PQRS* *PQRS plane*	Satah *PSTU* *PSTU plane*
A		
B		
C		
D		

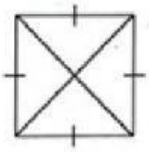
2 Rajah berikut menunjukkan sebuah piramid tegak dengan tapak berbentuk segi empat sama.
The following diagram shows a right pyramid with a square base.

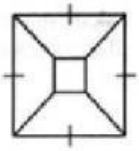


Antara berikut, yang manakah ialah unjuran ortogon bagi objek itu ke atas suatu satah mengufuk sebagaimana dilihat dari **X**?
Which of the following is the orthogonal projection of the object onto a horizontal plane as viewed from X?

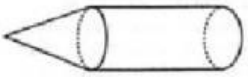
A


C


B


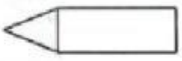
D


3 Rajah berikut menunjukkan sebuah gabungan pepejal yang terdiri daripada sebuah kon dan sebuah silinder.
The following diagram shows the combined solid consisting of a cone and a cylinder.

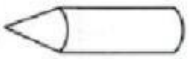


Antara berikut, yang manakah dongakan hadapan bagi pepejal itu?
Which of the following is the front elevation of the solid?

A

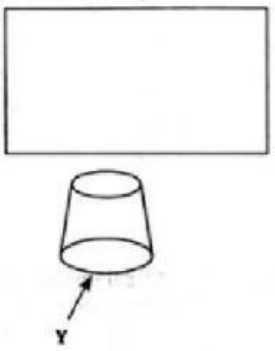

C


B


D


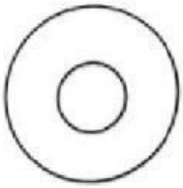
LIVEWORKSHEETS

4 Rajah berikut menunjukkan sebuah frustum kon dan sebuah skrin mencancang.
The following diagram shows a conical frustum and a vertical screen.



Tentukan unjuran ortogon bagi frustum itu ke atas satah mencancang sebagaimana dilihat dari **Y**.
Determine the orthogonal projection of the frustum onto the vertical plane as viewed from Y.

A



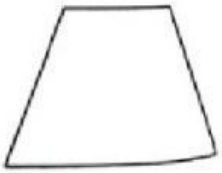
C



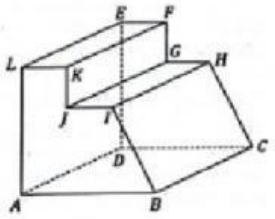
B



D

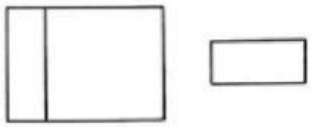


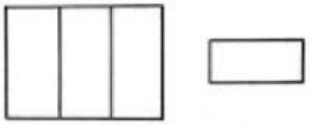
5 Rajah di bawah menunjukkan sebuah prisma. Heksagon *ABIJKL* ialah keratan rentas seragamnya.
The diagram below shows a prism. Hexagon ABIJKL is its uniform cross section.

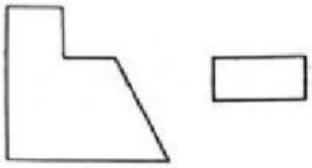


(*a*) Tandakan (✓) bagi pelan prisma tersebut.
Mark (✓) for the plan of the prism.
[1 markah/ *mark*]

Jawapan/ *Answer*:







(*b*) Tandakan (✓) bagi panjang sisi pada pelan yang berubah dan (✗) bagi yang tidak.
Mark (✓) for the side length on the plan which changes and (✗) for which does not.
[3 markah/ *marks*]

Jawapan/ *Answer*:

(i)	*LK*	
(ii)	*IH*	
(iii)	*HC*	

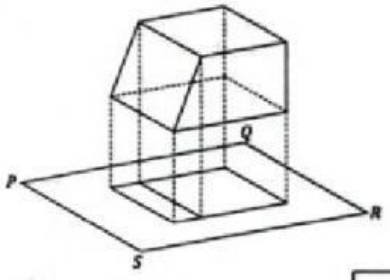
LIVEWORKSHEETS

6 Rajah di bawah menunjukkan **unjuran ortogon pada** satah *PQRS*. **Tandakan (✓) bagi unjuran ortogon yang betul dan (✗) bagi yang salah.**
The diagram below shows the orthogonal projections on the plane PQRS. Mark (✓) for the correct orthogonal projections and (✗) for the incorrect ones.

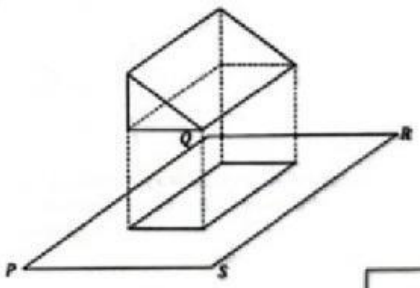
[4 markah/ *marks*]

Jawapan/ *Answer:*

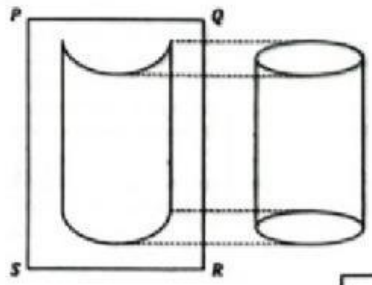
(a)



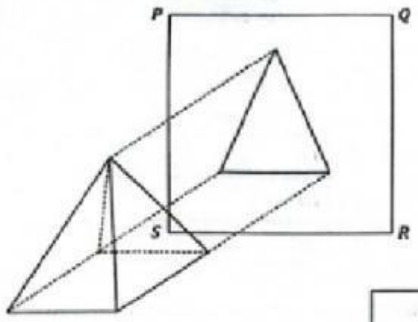
(b)



(c)



(d)



LIVEWORKSHEETS