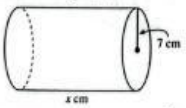
PT3 Bahagian A

1. Antara pernyataan berikut, yang manakah **bukan** sifat geometri sebuah piramid?
Which of the following is **not** *a geometrical characteristic of a pyramid?*
   A Mempunyai satu tapak rata berbentuk poligon
   Has a polygonal flat base
   B Mempunyai satu puncak
   Has one apex
   C Semua titik pada permukaan adalah sama jarak dari pusatnya
   All the points on the surface are of the same distance from the centre
   D Mempunyai muka yang berbentuk segi tiga
   Has triangular faces

2. Objek manakah yang mempunyai keratan rentas seragam yang berbentuk poligon?
Which object has uniform cross section in the shape of a polygon?
   A Kon/*Cone*
   B Sfera/*Sphere*
   C Silinder/*Cylinder*
   D Prisma/*Prism*

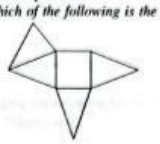
3. Hitung luas, dalam cm^2, permukaan sebuah sfera yang berdiameter 7 cm.
Calculate the surface area, in cm^2, of a sphere with a diameter of 7 cm.
   A 113.14
   B 154
   C 226.29
   D 616

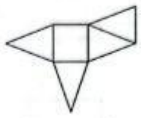
4. Rajah di bawah menunjukkan sebuah silinder.
The diagram shows a cylinder.

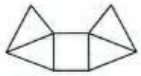


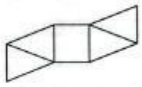
Isi padu silinder itu ialah 3 080 cm^3. Cari nilai x.
The volume of the cylinder is 3 080 cm^3. Find the value of x.
   A 20 B 10
   C 18 D 9

5. Antara berikut, yang manakah bentangan bagi sebuah piramid?
Which of the following is the net of a pyramid?

A


B


C


D


PT3 Bahagian B

6. (a) Lengkapkan ayat berikut.
Complete the following sentence.
[2 *markah*/2 *marks*]

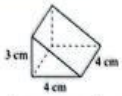
Silinder mempunyai _____ tapak rata berbentuk bulatan yang kongruen dan _____.

A cylinder has _____ circular flat bases which are congruent and _____.

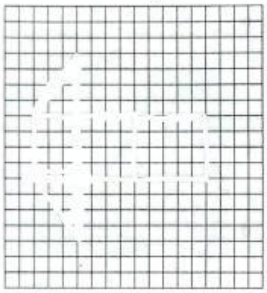
(b) Lakarkan bentangan bagi sebuah kon.
Sketch the net of a cone.
[2 *markah*/2 *marks*]

PT3 Bahagian C

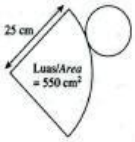
7. (a) Rajah di bawah menunjukkan sebuah prisma.
The diagram shows a prism.



Lengkapkan bentangan prisma itu pada grid di bawah.
Complete the net of the prism on the grid below.
[3 *markah*/3 *marks*]

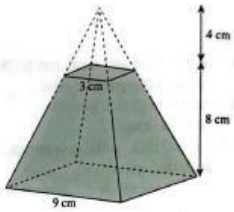


(b) Rajah di bawah menunjukkan bentangan sebuah kon.
The diagram shows the net of a cone.



Hitung isi padu, dalam cm^3, kon itu.
Calculate the volume, in cm^3, of the cone.
[3 *markah*/3 *marks*]

(c) Sebuah kilang ingin membuat model besi
KBAT berbentuk frustum setinggi 8 cm seperti rajah di bawah. Tapak model itu berbentuk segi empat sama.
A factory wants to make a frustum-shaped iron model with height of 8 cm as shown in the diagram. The base of the model is square.



(i) Hitung isi padu, dalam cm^3, besi yang digunakan untuk membuat model itu.
Calculate the volume, in cm^3, of iron used to make the model.
[2 *markah*/2 *marks*]

(ii) Jika kos pembuatan model itu ialah 20 sen per cm^3, hitung jumlah kos pembuatan 25 buah model itu.
If the manufacturing cost of the model is 20 sen per cm^3, calculate the total manufacturing cost for 25 models.
[2 *markah*/2 *marks*]

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