



The Most Comprehensive Preparation App For All Exams



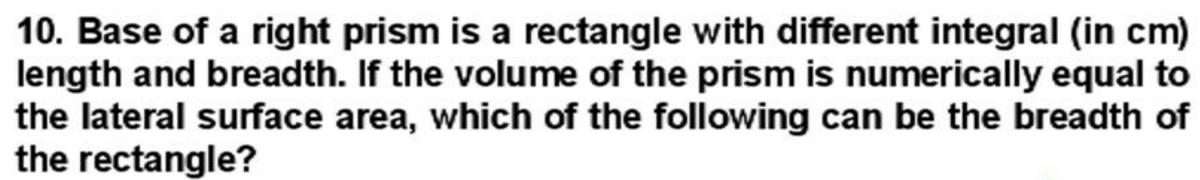
M ENSURATION-3D Part-6



Agenda

t leftover Austin (8-10) min
Prism (55-60) min

Pyramid + Tetrahedron) -> extra



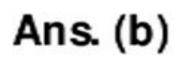


(a) 2 cm

(b) 3 cm

(c) 4 cm

(d) 5 cm









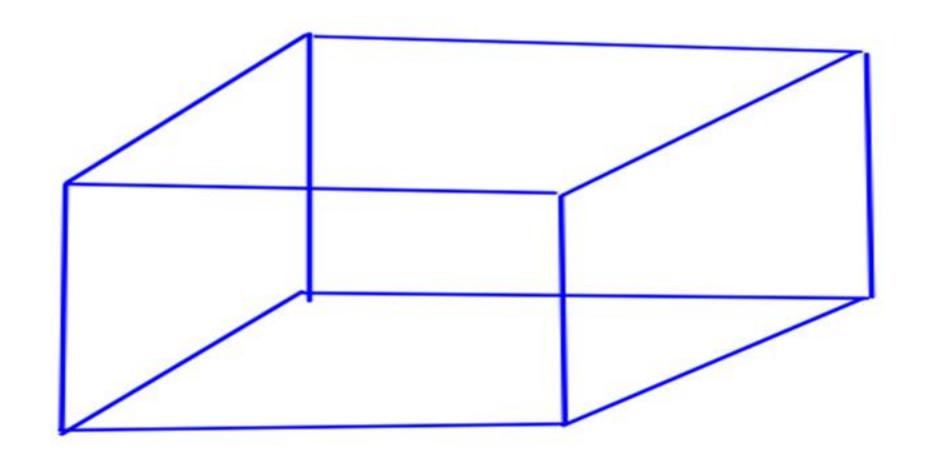
Right

Prism

Base Top Polygon lateral senfacer - Recitargle

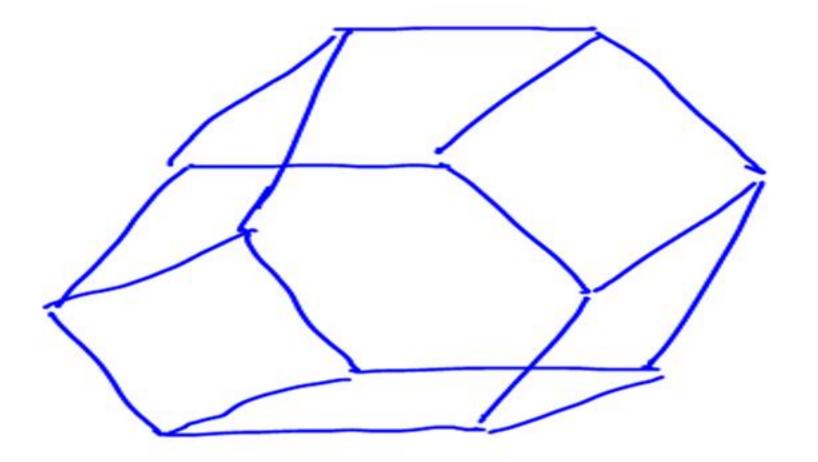
Bak Tuesof





Box Top -> Rectargle lateral Surface -> Rectargle





Box -1 Hexagon

What is Prism?





Name of Prison -> Bass

Base

Triongle

Rectorgle

Hoxadan

Name

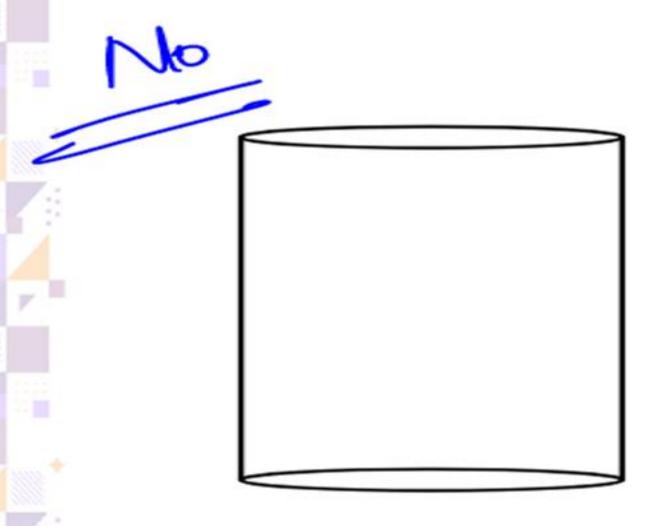
Tuangular Prism

Rectangular Prison

flekagenal Prism

Is kight Circular Cylinder a Prism? BYJU'S

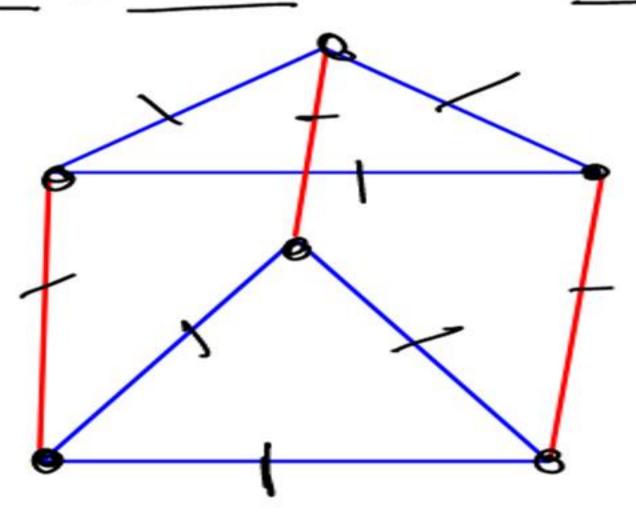




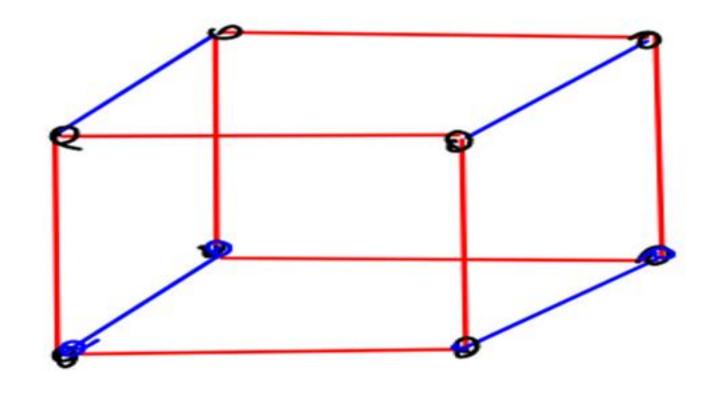
Barry Top and of polygon

Faces, Vertices and Edges of Prism BYJU'S





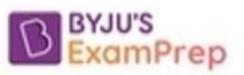




faces -> 6

Vertice ->> 8

Edges - 12



for Any Priem where Born is a Polygon of n sides

faces - 1 n+2

Vertices -> 20

Edges - 30



1=5

Eg There is a pentagonal prism Find the value F+E-V

focus (7)

E-, Edger (15)

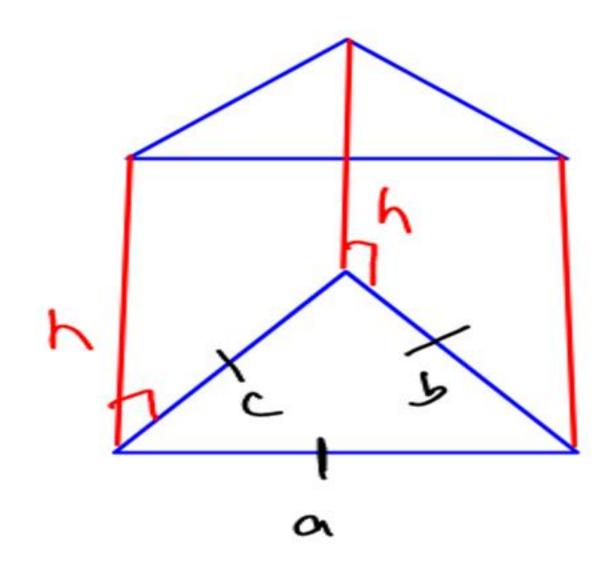
Vertices (10)

7+15-10



De Prison





let the side of the book are a 1 b d c d beight of prism is

- 9 9 h + 5h + Ch

h (a+b+c)

perimeteral back x hight



Formulae used in Prism



(i) Lateral surface area = Perimeter of the base × Height

(ii) Total surface area = Lateral surface area + 2 × area of the base

(iii) Volume = Area of the base × Height

1. The base of a right prism is an equilateral triangle. If the lateral surface area and the volume are 120 cm² and $40\sqrt{3}$ cm³ respectively, then the side of base of the prism is:



(a) 4 cm (b) 5 cm

(c) 7 cm

(d) 40 cm

Equ

LSA = 120

Volume = 4053

(Perime terd board Leight = 120

(Aread poor) X reight = 4053





2. The base of a right prism is a right-angled triangle whose sides are 5 cm, 12 cm and 13 cm. If the area of the total surface of the prism is 360 cm², then its height (in cm) is

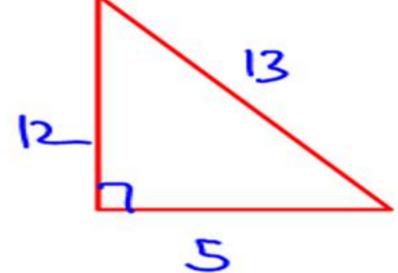


(b) 12

(c) 9

(d) 11

Base







3. The total surface area of a right triangular prism of height 6 cm is $_{162√3}$ cm². If the base of the prism is an equilateral triangle, what is the volume of the prism?



(a)
$$162\sqrt{3}$$
 cm³

(b)
$$105\sqrt{3}$$
 cm³

$$\frac{35.6 + 2.5}{30.6} = \frac{2.45}{30.6}$$

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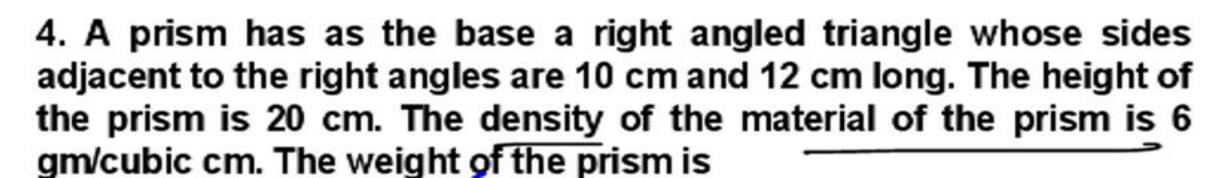
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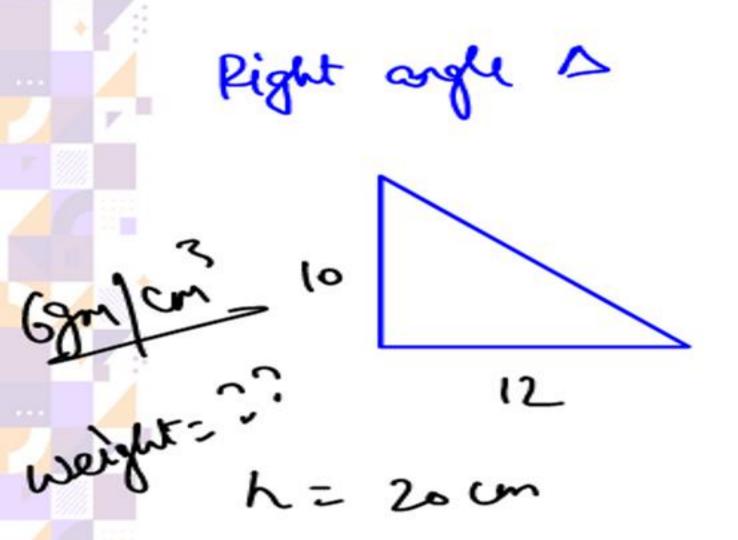


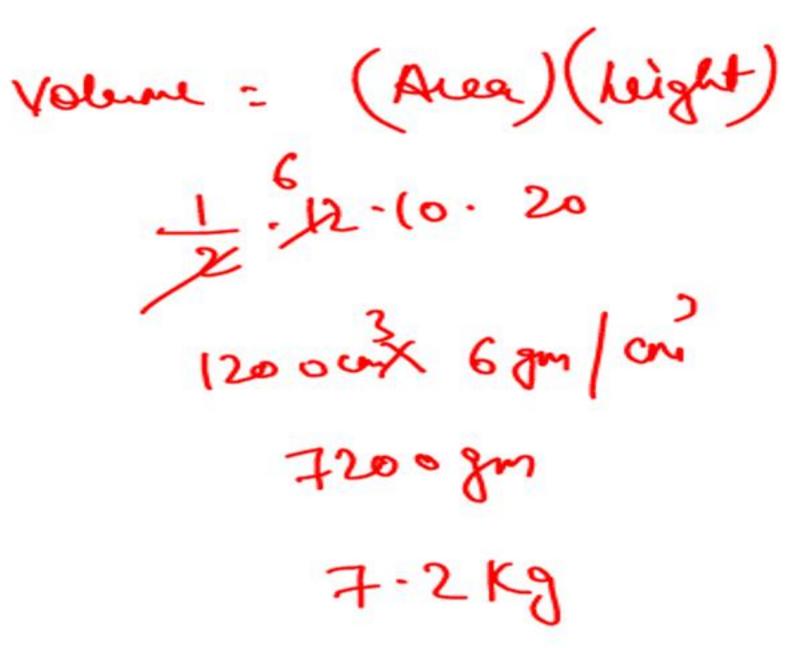




- (a)
- 6.4 kg
- (b)
- 7.2 kg

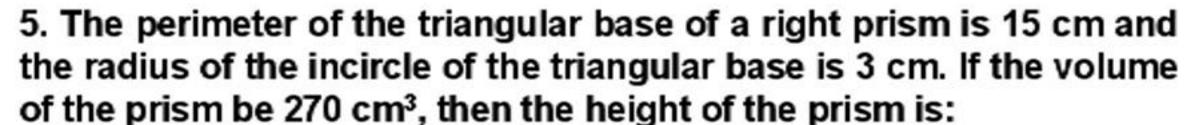
- (c) :
 - 3.4 kg
- (d)
- 4.8 kg













(a) 6 cm

(b) 7.5 cm

(c) 10 cm

(d) 12 cm





6. The base of a right prism is a rectangle, the ratio of whose length and breadth is 3:2. If the height of the prism be 12 cm and the total surface area is 288 sq. cm, the volume of the prism is:



(a) 291 cm³





7. The height of a right prism with a square base is 15 cm. If the area of the total surface of the prism is 608 sq. cm, its volume is:

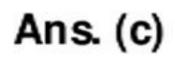


(a) 910 cm³

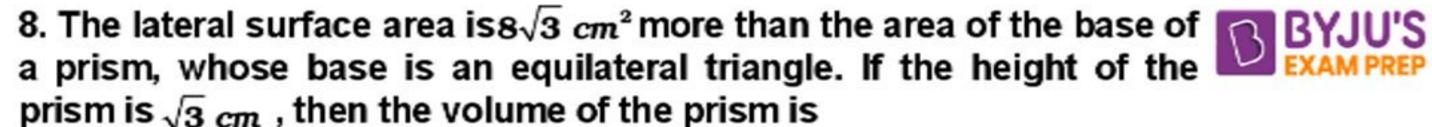
- (b) 920 cm³
- (c) 960 cm³

(d) 980 cm³

Ban -> Square









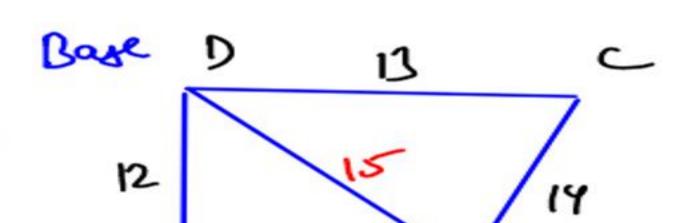


9. The base of a right prism is a quadrilateral ABCD. Given that AB = 9 cm, BC = 14 cm, CD = 13 cm, DA = 12 cm and ∠DAB = 90°. If the volume of the



- prism be 2070 cm³, then the area of the lateral surface is –
- 720 cm²
- (b) 8
- 810 cm²

- (c) 1260 cm²
- (d)
- 2070 cm²



Area of suad ABCD

A . h = 2070

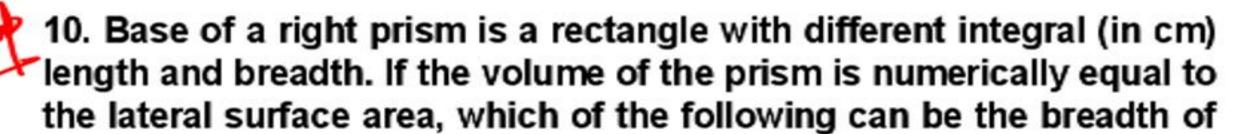
= Area of DABD + ABCD

1-9. Kt + J21.8.7.6

544 84 = 138cm









(a) 2 cm

the rectangle?

(c) 4 cm







Pyramid



What is Pyramid?

