

ONLINE COACHING - DAY 105 (27/06/2020 - SATURDAY)

Total points 25/25 ?

Topic : Mensuration

0 of 0 points



Name of the Candidate *

M5

Place of the candidate *

Thrissur



WHATS APP NUMBER (JOINED IN SAI EDUCATION ONLINE COACHING PLATFORM GROUP) *

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Please watch the following videos and answer the following questions

25 of 25 points

<https://youtu.be/dY55PUSFvlw>
<https://youtu.be/WlekBwZ9Hus>
<https://youtu.be/ggC-tkTCPsQ>
<https://youtu.be/GAsXuPsLvP8>

✓ 1. If the area of a triangle is 1176 and base:corresponding altitude is 3:4, then the altitude of the triangle is? *

1/1

- 42 cm
- 52 cm
- 54 cm
- 56 cm



✓ 2. Find the area of a right angled triangle, if it's base is 12 cm and hypotenuse is 13 cm? *

1/1

- 30



40

60

80

✓ 3. Find the sum of angles except right angle? *

1/1

180

135

90

45

✓

✓ 4. Find the area of a right angled triangle, it's base is 11 cm and perpendicular is 10? *

1/1

50

55

60

65

✓

✓ 5. Find the area of equilateral triangle, it's side is 4 cm? *

1/1

$2\sqrt{5}$

$4\sqrt{3}$

$5\sqrt{2}$

✓



$5\sqrt{3}$

✓ 6. Find the area of the equilateral triangle, if its height is $\sqrt{6}$ cm? * 1/1

$4\sqrt{3}$

$3\sqrt{3}$

$2\sqrt{3}$



$\sqrt{3}$

✓ 7. Find the area of an equilateral triangle, if its perimeter is 12 cm? * 1/1

$6\sqrt{2}$

$6\sqrt{3}$

$4\sqrt{3}$



$3\sqrt{3}$

✓ 8. In a triangle ABC, $AB=AC$, $\angle A = 80$ degree, then $\angle b$ is? * 1/1

80 degree

50 degree



30 degree

60 degree



✓ 9. Find the area of Isosceles triangle, If it two sides are 6 cm each? * 1/1

18



12

14

6

✓ 10. Find the base of an isosceles triangle, if its perimeter is 80 cm and equal sides are 15 cm each? * 1/1

60 cm

50cm



80 cm

30 cm

✓ 11. The diameter of a cylinder is 7 cm and its height is 16 cm. The lateral surface area is? * 1/1

352



350

355





348

✓ 12. The volume of a solid hemisphere 19404 cm^3 . Its total surface area is? 1/1
*

4158



2858

1738

2038

✓ 13. A rectangular paper sheet of a diameter $44 \times 18 \text{ cm}$ is folded in the form of a cylinder along its length. What will be the volume of this cylinder? * 1/1

2700

2772



3992

3772

✓ 14. The height of a cone is 24 cm and cylindrical surface area is 550 cm^2 , then its volume? * 1/1

1200



1232



1240

1260

✓ 15. A conical cup is filled with ice cream. The ice cream forms a hemispherical shape on its open top. The height of the hemispherical part is 7 cm. The radius of hemispherical part equals the height of the cone. Then the volume of the cone ice cream. *

1/1

1078



1708

7108

7180

✓ 16. An octahedran has 8 faces and 6 vertices, then the number of edges is _____? *

1/1

12



14

18

20

✓ 17. Find the volume of a pyramid with a rectangular base measuring 6 cm by 4 cm and height 10 cm? *

1/1

75



- 60
- 80
- 100



✓ 18. The slant height of the frustum of a cone is 5 cm. If the difference between the radii of its two circular ends is 4 cm, write the height of the frustum. *

1/1

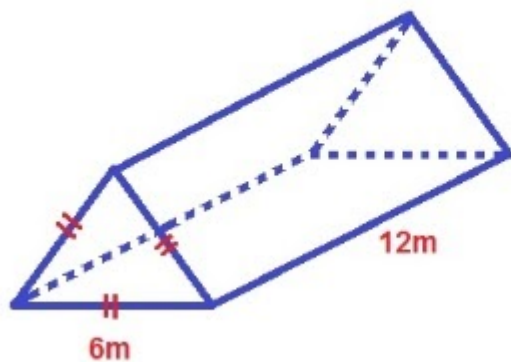
- 5
- 3
- 6
- 8



✓ 19. *

1/1

Find the volume of the following triangular prism:



- $108\sqrt{3}$
- $118\sqrt{3}$
- $98\sqrt{3}$

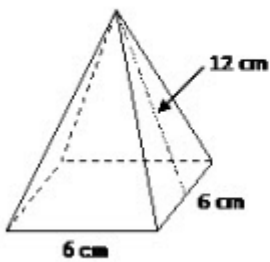


$88\sqrt{3}$

✓ 20. *

1/1

Calculate the surface area of the following pyramid.



- 220
- 150
- 360
- 180

✓

✓ 21. The area of a rectangular field is 460 square meters. If the length is 15% more than the breadth, what is breadth of the rectangular field? *

1/1

- 16 meter
- 26 meter
- 20 meter
- 34.5 meter

✓



✓ 22. What would be the cost of building a fence around a square plot with area 462.25 sq.ft. at the rate of Rupees 34 per foot? * 1/1

- 2924
- 2682
- 2846
- Cannot be determined



✓ 23. The area of square is 1024. Sq cm. What is the respective ratio between the length and the breadth of a rectangle whose length is twice the side of the square and breadth is 12cm. less than the side of the square? * 1/1

- 5 : 18
- 16 : 5
- 14 : 5
- 32 : 5



✓ 24. The perimeter of a rectangular field is 240 meter. The ratio between the length and breadth of the field is 8 : 7. Find the area of the field. * 1/1

- 3854



3584



3684

3666

✓ 25. If the volume and curved surface area of a cylinder are 616 and 352 respectively, what is the total surface area of the cylinder. * 1/1

429



419

435

421

THANK YOU

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