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QUIZ NO: 460

TOPIC: WORKSHOP CALCULATION

DATE: 26/06/2021

1. A Solid metal cylinder of radius 14cm and height 21 cm is melted and recast into spheres each of radius 3.5 cm. Calculate the number of spheres:

[A] 0.343

[B] 72

[C] 24

[D] 36

Answer: B

2. Find the perimeter of sector whose angle is 30 degree and radius is 7cm:

[A] 1.83cm

[B] 15.83cm

[C] 9.16 cm

[D] 18.32 cm

Answer: B

3. The diagonals of a rhombus are 36 cm and 24 cm, find its area:

- [A] 812cm^2
- [B] 864cm^2
- [C] 672 cm^2
- [D] 432cm^2

Answer: D

4. A bucket of base diameter 24cm, top diameter 40 cm and height 30cm is filled with water find the weight of water:

- [A] 24.63kg
- [B] 34.45kg
- [C] 32.42 kg
- [D] 18.48 kg

Answer: A

5. Find the area of a sector of a circle whose radius is 14cm and the length of the arc of sector is 28cm:

- [A] 44 cm^2
- [B] 360 cm^2
- [C] 196 cm^2
- [D] 302 cm^2

Answer: C

6. Find the volume of a hemisphere of diameter 17cm:

- [A] 972 CC
- [B] 1156 CC
- [C] 2572 CC
- [D] 1286 CC

Answer: D

7. Surface area of a cube with side 'a' cm is:

- [A] a^3
- [B] a^2
- [C] $3a^2$
- [D] $6a^2$

Answer: D

8. The volume of right cone having base radius r and height h is given as:

- [A] $1/3\pi r^3$
- [B] $\pi r^2 h/3$
- [C] $4/3\pi r^3$
- [D] $2/3\pi r^3$

Answer: B

9. The volume of a cube with side a is given by:

- [A] a^2
- [B] a^3
- [C] $6a^2$
- [D] $6a^3$

Answer: B

10. Find the side of a square plot whose area is 38.44 m^2

- [A] 5.6m
- [B] 3.8m
- [C] 6.9 m
- [D] 6.2m

Answer: D

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