

UNIT 14 *Volumes***CSEC Multiple Choice Questions**

For each of these questions, choose the option (A, B, C or D) that is TRUE.

- The volume of a cuboid of sides $\frac{1}{2}$ m, 20 cm, 10 cm is
 - 100 cm^3
 - 1000 cm^3
 - $10\,000 \text{ cm}^3$
 - $100\,000 \text{ cm}^3$
- A rectangular tank is 100 cm long, 30 cm wide and 12 cm deep. The volume of liquid it will hold is
 - 3.6 litres
 - 36 litres
 - 360 litres
 - 3600 litres
- The width of a block of wood with rectangular cross-section is x cm. Its height is $\frac{2}{3}$ its width and its length is 4 times its height. What is its volume in cm^3 ?
 - $\frac{8x}{9}$
 - $\frac{16x^3}{9}$
 - $\frac{8x^3}{3}$
 - $\frac{17x}{3}$
- The volume of a sphere of radius 3 cm is
 - $9\pi \text{ cm}^3$
 - $18\pi \text{ cm}^3$
 - $27\pi \text{ cm}^3$
 - $36\pi \text{ cm}^3$

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5. A cube has volume 125 cm^3 . What is the area of one of its faces?
- (A) 5 cm^2
(B) 25 cm^2
(C) 150 cm^2
(D) 300 cm^2
6. A cylinder has base radius 5 cm and height 10 cm.
What is the volume of the cylinder?
- (A) $50\pi \text{ cm}^3$
(B) $100\pi \text{ cm}^3$
(C) $250\pi \text{ cm}^3$
(D) $500\pi \text{ cm}^3$
7. The volume of a sphere is $64\pi \text{ cm}^3$. What is the diameter of the sphere?
- (A) 2 cm
(B) 4 cm
(C) 8 cm
(D) 16 cm
8. The surface area of a sphere is $36\pi \text{ cm}^2$. What is the volume of the sphere?
- (A) $4\pi \text{ cm}^3$
(B) $12\pi \text{ cm}^3$
(C) $24\pi \text{ cm}^3$
(D) $36\pi \text{ cm}^3$

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ANSWERS

1. C
2. B
3. B
4. D
5. B
6. C
7. C
8. D