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

1. The volume of a cuboid of sides $\frac{1}{2}$ m, 20 cm, 10 cm is
   
   (A) 100 cm³  
   (B) 1000 cm³  
   (C) 10 000 cm³  
   (D) 100 000 cm³

2. A rectangular tank is 100 cm long, 30 cm wide and 12 cm deep. The volume of liquid it will hold is
   
   (A) 3.6 litres  
   (B) 36 litres  
   (C) 360 litres  
   (D) 3600 litres

3. 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 cm³?
   
   (A) $\frac{8x}{9}$  
   (B) $\frac{16x^3}{9}$  
   (C) $\frac{8x^3}{3}$  
   (D) $\frac{17x}{3}$

4. The volume of a sphere of radius 3 cm is
   
   (A) $9\pi$ cm³  
   (B) $18\pi$ cm³  
   (C) $27\pi$ cm³  
   (D) $36\pi$ cm³
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) $50 \pi$ cm$^3$
(B) $100 \pi$ cm$^3$
(C) $250 \pi$ cm$^3$
(D) $500 \pi$ cm$^3$

7. The volume of a sphere is $64 \pi$ 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 $36 \pi$ cm$^2$. What is the volume of the sphere?
(A) $4 \pi$ cm$^3$
(B) $12 \pi$ cm$^3$
(C) $24 \pi$ cm$^3$
(D) $36 \pi$ cm$^3$
UNIT 14  Volumes

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