

#### EXERCISE 20C

#### PAGE NO: 228

Select the correct answer in each of the following:

- The maximum length of a pencil that can be kept in rectangular box of dimensions 12cm × 9cm × 8cm, is
  (a) 13cm
  (b) 17cm
  (c) 18cm
  (d) 19cm

Solution: (b) 17cm

**Explanation:** 

We know that length of diagonal of the cuboid=  $\sqrt{(l^2+b^2+h^2)}$ = $\sqrt{(12^2+9^2+8^2)}$ = $\sqrt{(144+81+64)}$ =17

 The total surface area of a cube is 150 cm<sup>2</sup>. Its volume is (a)216 cm<sup>3</sup> (b) 125 cm<sup>3</sup> (c) 64 cm<sup>3</sup> (d) 1000 cm<sup>3</sup>

Solution:

(b) 125 cm<sup>3</sup>

Explanation:

Total surface area of the cube =  $6 a^2$   $150 = 6 a^2$   $a^2 = 150/6 = 25$  a = 5Volume of the cube =  $a^3$  $V = 5^3 = 125$ 

- 3. The volume of a cube is 343 cm3. Its total surface area is
  - (a)196 cm<sup>2</sup> (b) 49 cm<sup>2</sup> (c) 294 cm<sup>2</sup> (d) 147 cm<sup>2</sup>

Solution:

(c)294 cm<sup>2</sup>

Explanation:

Volume of the cube =  $a^3$   $343 = a^3$  a = 7cm Total surface area of the cube =  $6 a^2$ =  $6 (7)^2$ 

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**Stalin Malhotra, Shelly Jolly** 

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