

**Solution 24:** Let the length, breadth and height (or depth) of the cuboid be  $l$  cm,  $b$  cm and  $h$  cm, respectively.

$$\therefore l + b + h = 19 \quad \dots(i)$$

Also,

Length of the diagonal = 11 cm

$$\Rightarrow \sqrt{l^2 + b^2 + h^2} = 11$$

Squaring on both sides, we get

$$l^2 + b^2 + h^2 = 121 \quad \dots(ii)$$

Squaring (i), we get

$$(l + b + h)^2 = 19^2$$

$$\Rightarrow l^2 + b^2 + h^2 + 2(lb + bh + hl) = 361$$

$$\Rightarrow 121 + 2(lb + bh + hl) = 361 \quad [\text{Using (ii)}]$$

$$\Rightarrow 2(lb + bh + hl) = 361 - 121 = 240 \text{ cm}^2$$

Thus, the surface area of the cuboid is  $240 \text{ cm}^2$ .

**Solution 25:** Let the initial edge of the cube be  $a$  units.

$\therefore$  Initial surface area of the cube =  $6a^2$  square units

New edge of the cube =  $a + 50\%$  of  $a$

$$\begin{aligned} &= a + \frac{50}{100}a \\ &= \frac{100a + 50a}{100} \\ &= \frac{150a}{100} \\ &= 1.5a \text{ units} \end{aligned}$$

$\therefore$  New surface of the cube =  $6(1.5a)^2 = 13.5a^2$  square units

Increase in surface area of the cube =  $13.5a^2 - 6a^2 = 7.5a^2$  square units

$\therefore$  Percentage increase in the surface area of the cube

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