## Sub: Arithmetic

Duration: $\mathbf{4 0}$ Min

## Choose the correct options:

Worksheet Solution 47

1. The capacity of a rectangular tank is 189 kiloliters. it is 7 m long and 4.5 m high. Find its breadth.
(a) $\mathbf{6 m}$
(b) 10 m
(c) 4 m
(d) 5.2 m
2. A swimming pool has 120 kiloliters of water. If the width of the pool is 4 m and the depth of water is 2 m , what is the length of the pool?
(a) 14 m
(b) $\mathbf{1 5} \mathrm{m}$
(c) 10 m
(d) 20 m

3 . Find the volume of a cube of side 8 cm .
(a) $343 \mathrm{~cm}^{3}$
(b) $\mathbf{5 1 2} \mathrm{cm}^{3}$
(c) $144 \mathrm{~cm}^{3}$
(d) $729 \mathrm{~cm}^{3}$
4. Find the surface area of a cube with sides 4 mm
(a) $72 \mathrm{~mm}^{2}$
(b) $\mathbf{9 6} \mathrm{mm}^{2}$
(c) $108 \mathrm{~mm}^{2}$
(d) $64 \mathrm{~mm}^{2}$
5. Find the surface area of a cuboid 4 cm in height, 2 cm length and 5 cm in width.
(a) $40 \mathrm{~cm}^{2}$
(b) $46 \mathrm{~cm}^{2}$
(c) $58 \mathrm{~cm}^{2}$
(d) $76 \mathrm{~cm}^{2}$
6. Find the surface area of a cuboid with length $=1$, width $=\mathrm{w}$ and height $=\mathrm{h}$
(a) $\mathbf{2 h l}+2 \mathrm{wl}+2 \mathrm{hw}$
(b) $1 * \mathrm{~h} * \mathrm{w}$
(c) 6 hl
(d) 4 hw
7. A cube has each of its faces covered by one face of an identical cube, making the solid shape shown. The volume of the solid shape is $875 \mathrm{~cm}^{3}$. What is the volume of one of the cubes?

(a) $\mathbf{1 2 5} \mathrm{cm}^{3}$
(b) $250 \mathrm{~cm}^{3}$
(c) $875 \mathrm{~cm}^{3}$
(d) $62.25 \mathrm{~cm}^{3}$
8. A cube has six faces. Theo builds a bigger cube out of 27 little cubes. He paints the outside of the big cube and lets the paint dry. He then breaks it up into the original 27 cubes. What if the total number of unpainted faces on the little cubes?
(a) 162 faces
(b) 108 faces
(c) 81 faces
(d) 54 faces
9. Two identical cubes each of total surface area of $6 \mathrm{~cm}^{2}$ are joined end to end. Which of the following is the total surface area of the cuboid so formed?
(a) $12 \mathrm{~cm}^{2}$
(b) $18 \mathrm{~cm}^{2}$
(c) $\mathbf{1 0} \mathrm{cm}^{2}$
(d) $8 \mathrm{~cm}^{2}$
10. If a rectangular cuboid is 15 cm long, 10 cm wide and 9 cm high with volume of $500 \mathrm{~cm}^{3}$ then surface area of cuboid is ....
(a) $750 \mathrm{~cm}^{2}$
(b) $800 \mathrm{~cm}^{2}$
(c) $850 \mathrm{~cm}^{2}$
(d) $700 \mathrm{~cm}^{2}$
11. If a rectangular cuboid is 9 cm long and 8 cm wide with volume of $450 \mathrm{~cm}^{3}$ then height of cuboid in ' cm ' is ...
(a) 12.25
(b) 6.25
(c) 8.25
(d) 9.25
12. If a rectangular tank is 21 cm long, 13 cm wide and 18 cm high and contains water up to a height of 11 cm then total surface area is ....
(a) $1450 \mathrm{~cm}^{2}$
(b) $1350 \mathrm{~cm}^{2}$
(c) $1200 \mathrm{~cm}^{2}$
(d) $1021 \mathrm{~cm}^{2}$
13. By converting $2,500,000 \mathrm{~mm}^{3}$ into $\mathrm{cm}^{3}$, answer will be $\qquad$
(a) $250 \mathrm{~cm}^{3}$
(b) $2,500 \mathrm{~cm}^{3}$
(c) $25 \mathrm{~cm}^{3}$
(d) $25,000 \mathrm{~cm}^{3}$
14. A cube is coloured red on all faces. It is cut into 64 smaller cubes of equal size. How many cubes have no face coloured?
(a) 24
(b) 16
(c) 8
(d) 4
15. A big cube whose all the corners are named as $\mathrm{H}, \mathrm{I}, \mathrm{J}, \mathrm{K}, \mathrm{L}, \mathrm{M}, \mathrm{N}$ and O . Its each portion is of 42 cm length. The cube is segmented into tiny cubes and length of the portion of each tiny cube is 6 cm . Then how many such cubes are possible?
(a) 343
(b) 385
(c) $\mathbf{1 2 5}$
(d) 364

