



VIDYA BHARATI SCHOOL

OLYMPIAD WORKSHEET: JANUARY 2018

CLASS- VIII

- The quantity that a container holds is called its
(a) surface area (b) lateral surface area (c) capacity (d) volume
- 1 m³ is _____ .
(a) 10 L (b) 100 L (c) 1000 L (d) 10000 L
- The height of cuboid whose volume is 200 cm³ and base area is 20 cm² is
(a) 220 cm (b) 100 cm (c) 10 cm (d) 20 cm
- 1 m l = _____ .
(a) 1 cm³ (b) 10 cm³ (c) 100 cm³ (d) 1000 cm³
- If each edge of a cube is doubled, its surface area will increase
(a) two times (b) three times (c) four times (d) five times
- If the diagonals of rhombus are 6 cm & 8 cm, its area will be
(a) 48 cm² (b) 24 cm (c) 48 cm (d) 24 cm²
- Diagonals of rhombus are
(a) equal (b) half of one diagonal (c) of different length (d) none of above
- If the base of rhombus is 7 cm and its altitude is 4 cm, its area will be
(a) 14 cm² (b) 28 cm (c) 14 cm (d) 28 cm²
- 1 L = _____ cm³
(a) 100 (b) 1000 (c) 10 (d) 10,000
- If the length of edge of cube is 4 cm, its volume is
(a) 16 cm² (b) 64 cm³ (c) 64 cm² (d) 16 cm³
- The volume of cuboid of dimensions 4 cm, 2 cm and 3 cm is
(a) 24 cm³ (b) 12 cm³ (c) 24 cm² (d) 26 cm³
- The formula for finding volume of cuboid is
(a) side × side (b) l × b × h (c) side + side + side (d) l × b

13. The formula for finding volume of cylinder is

- (a) $2h$ (b) $\pi r^2 h$ (c) lbh (d) none

14. Fill in the blank $a^m \times a^n = a^{\dots\dots\dots}$

where m and n are natural numbers:-

- (a) mn (b) $m + n$ (c) $m - n$ (d) m/n

15. The exponential form of $1/8 \times (3)^{-3}$

is given by which of the following expression:

- (a) 6^{-3} (b) 2^3 (c) 3^{-3} (d) none

16. The value of $1/3^{-2}$ is equal to

- (a) 9 (b) 1 (c) -6 (d) $1/3$

17. In exponential form 149,600,000,000 m is given by :

- (a) 1.496×10^{11} m (b) 1.496×10^8 m (c) 14.96×10^8 m (d) 14.96×10^{11} m

18. In simplified form $(3^{-1} + 4^{-1} + 5^{-1})^0$

is equals to

- (a) 12 (b) -3 (c) 12 (d) 1

19. The value of 7^2 is

- (a) 7 (b) 49 (c) 2 (d) 14

20. The Base in the expression 8^{100} is

- (a) 10 b (b) 100 (c) 8 (d) 800