



VIDYA BHARATI SCHOOL

OLYMPIAD WORKSHEET - NOVEMBER 2017

GRADE: VIII

SUBJECT: MATHS

1. Charge of an electron is 0.000,000,000,000,000,000,16 coulomb and in exponential form it can be written as

(a) 16×10^{-18} coulomb (b) 1.6×10^{-21} coulomb

(c) 1.6×10^{-21} coulomb (d) 16×10^{-21} coulomb

2. In standard form 56700000 is written as

(a) 5.67×10^7 (b) 567×10^7 (c) 5.67×10^7 (d) 567×100000

3. Usual form of the expression 9×10^{-5} is given by

(a) 0.00009 (b) 0.000009 (c) 90×10^{-4} (d) 0.09×10^{-3}

4. 32 is the multiplicative inverse of

(a) $1/9$ (b) $1/3^{-3}$ (c) 6 (d) $1/2^5$

5. 64 is the multiplicative inverse of

(a) 2^{-8} (b) 82 (c) 24 (d) none

6. The value of $2^0 \times 3^0 \times 4^0$

(a) 1 (b) 0 (c) 24 (d) None

7. The expression $(5-1+7-1+3-1)^0$ is equal to

(a) 15 (b) -3 (c) $15-1$ (d) 1

8. The value of $(1/3)^{-2}$ is

(a) 9 (b) $-2/3$ (c) $1/9$ (d) 0

9. 16 is the multiplicative inverse of

(a) 2^{-4} (b) 2^8 (c) 82 (d) 2^4

10. Value of $(3^0 + 2^0) \times 5^0$ is

(a) 1 (b) 25 (c) 2 (d) 0

11. The value of 7^2 is

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

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

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

13. The value of 1000^0 is

(a) 0 (b) 1000 (c) 1 (d) None of these

14. Multiplicative inverse of 5^{-2} is

(a) -10 (b) 25 (c) 3 (d) 7

15. Value of $(2^3)^2$ is given by

(a) 64 (b) 32 (c) 12 (d) none

16. What will be the unit digit of the cube of a number ending with 2 ?

(a) 8 (b) 4 (c) 2 (d) 6

17. What will be the unit digit of the cube of a number ending with 4 ?

(a) 4 (b) 6 (c) 2 (d) 8

18. What will be the unit digit of the cube of a number ending with 6 ?

(a) 4 (b) 6 (c) 2 (d) 8

19. A cuboid has dimensions 5cm , 2cm, 5cm .How many such cuboid will be needed to form a cube ?

(a) 20 (b) 10 (c) 5 (d) 2

20. How many cuboids of dimensions 15cm, 30cm ,15cm will be needed to form a cube ?

- (a) 15 (b) 4 (c) 30 (d)19.