



# VIDYA BHAWAN, BALIKA VIDYAPITH

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(Affiliated to CBSE up to +2 Level)

Class: VII

Subject: Mathematics

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1. Express 729 as a power of 3.

- (a)  $3^8$                       (b)  $3^6$                       (c)  $9^3$                       (d) none of these

2. The value of  $(-1)^{55}$  is:

- (a) -1                      (b) 1                      (c) 0                      (d) none of these

3. The value of  $(-1)^{500}$  is:

- (a) -1                      (b) 1                      (c) 0                      (d) none of these

4. Simplify and write in exponential form of  $2^2 \times 2^5$

- (a)  $2^3$                       (b)  $2^7$                       (c) 128                      (d) none of these

5. Simplify and write in exponential form of  $(-4)^{100} \times (-4)^{20}$ .

- (a)  $(-4)^{120}$                       (b)  $(-4)^{80}$                       (c)  $(-4)^{2000}$                       (d) none of these

6. The exponent in the expression  $3^7$  is .....

- (a) 1                      (b) 7                      (c) 0                      (d) 3

7. The value of  $3^0$  is .....

- (a) 0                      (b) 3                      (c) 1                      (d) none of these

8. Multiplicative inverse of  $\frac{1}{7}$  is .....

- (a) 49                      (b) 5                      (c) 7                      (d) -14

9. Fill in the Blank  $a^m \div a^n = a^{\dots}$  Where m and n are natural numbers:-

- (a) mn                      (b) m + n                      (c) m - n                      (d) m ÷ n

10. Express  $(2a)^4$  in exponential form.

- (a)  $4a^3$                       (b)  $16a^4$                       (c)  $2a^4$                       (d)  $8a^4$