



# VIDYA BHAWAN, BALIKA VIDYAPITH

Shakti Utthan Ashram, Lakhisarai-811311(Bihar)

(Affiliated to CBSE up to +2 Level)

Class: VIII

Subject: Mathematics

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1. In simplified form  $(3^{\circ} + 4^{\circ} + 5^{\circ})^{\circ}$  is equals to:

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

2. The approximate distance of moon from the earth is 384, 467, 000 m and in exponential form this distance can be written as .....

- (a)  $3.84, 467 \times 10^8$  m (b)  $384, 467 \times 10^{-8}$  m (c)  $384, 467 \times 10^{-9}$  m (d)  $3.844, 67 \times 10^{-13}$  m

3.  $7 \times 10^{-5}$  m is the standard form of which of the following .....

- (a) 0.0007 m (b) 0.000007 m (c) 0.0000007 m (d) 0.00007 m

4. Fill in the blank:  $(-1)^{\text{even number}} = \dots\dots\dots$

- (a)  $2 \times (-1)$  (b) 1 (c) 0 (d) -13

5. Fill in the blank:  $(-1)^{\text{odd number}} = \dots\dots\dots$

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

6. value of  $(3^{\circ} + 2^{\circ}) \times 5^{\circ}$  is

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

7. The Base in the expression  $8^{10}$  is .....

- (a) 10 (b) 2 (c) 8 (d) 800

8. Usual form of the expression  $9 \times 10^{-5}$  is given by .....

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

9. 64 in exponential form is .....

- (a)  $2^6$  (b)  $16^2$  (c)  $\frac{1}{8^2}$  (d)  $2^4$

10. 1024 in exponential form is .....

- (a)  $2^6$  (b)  $16^2$  (c)  $\frac{1}{8^2}$  (d) none of these

**Fill In The Blanks**

1.  $\left(\frac{-2}{3}\right) \times \left(\frac{-2}{3}\right) \times \left(\frac{-2}{3}\right) \times \left(\frac{-2}{3}\right) = \left[ \dots \right]^4$

2.  $(-3)^3 \times (-3)^4 = \dots$

3. What power 2 is 32? .....

4. Value of  $\left[\left(\frac{2}{3}\right)^2\right]^3$  is .....

5. The standard form of 2156000 is .....

**Write in the standard form:**

1. The distance between Earth and Moon is 384,000 km.

2. Speed of light in vacuum is 300,000,000 m/s.

3. 0.0034256

**Find the value of:** 4.  $2^\circ \times 3^\circ \times 4^\circ$

5.  $(7^\circ \div 30) \times (8^\circ - 5^\circ)$

6.  $4^\circ \times 6^\circ + 100^\circ$

**Evaluate:**

1. Find the value of x:  $\left(\frac{-7}{5}\right)^{11} \div \left(\frac{-7}{5}\right)^3 = \left(\frac{-7}{5}\right)^{2x+2}$

b. Find the value of a:  $\left[\left(\frac{3}{13}\right)^8\right]^3 = \left(\frac{3}{13}\right)^{a+1}$

3.  $5\left\{\frac{2}{5}\right\} = 5^x$

4.  $(2^6 \div 2^{-3}) \times 2^{14} = 2^x$

**1. Simplify and write the answer in scientific rotation :**

(a)  $(5 \times 10^3) \times (3 \times 10^5)$       (b)  $\frac{4.5 \times 10^6}{0.9 \times 10^5}$

2. Find m for the following:

(a)  $\left(\frac{8}{9}\right)^5 \times \left(\frac{9}{4}\right) = (2)^m$

(b)  $(7)^3 \div (2)^m = \left(\frac{7}{2}\right)^3$

3. Using the standard form, write number 73984 in expanded form.