

SATISH CHANDRA MEMORIAL SCHOOL
Std VIII
CLASS TEST
POST MID SYLLABUS

FM: 12

1. A letter is chosen at random from the word 'MATHEMATICS'. What is the probability that it will be a vowel?

- A) $\frac{1}{2}$ B) $\frac{3}{8}$ C) $\frac{3}{11}$ D) $\frac{4}{11}$

2. The value of $(\sqrt{22} - \sqrt{13})^3 (\sqrt{22} + \sqrt{13})^3$ is

- A) 729 B) 81 C) 343 D) 100

3. $-\frac{1}{4}$ is a rational number between

- A) 0 and $\frac{1}{4}$ B) -1 and 0 C) 1 and 2 D) -2 and -1

4. A regular polygon is

- A) equiangular B) equilateral C) both A and B D) none of these

5. Every integer is a _____ number.

- A) natural B) rational C) whole D) positive

6. If the expressions $(8x - 15)$ and $(20 + 3x)$ are equal, then the value of x is

- A) 7 B) 1 C) $\frac{5}{11}$ D) $\frac{35}{11}$

7. If ' a ' is the square root of ' $3b$ ', then $b = ?$

- A) a^2 B) $\frac{\sqrt{a}}{3}$ C) $\sqrt[3]{a}$ D) $\frac{a^2}{3}$

8. Which of the following is a polynomial?

- A) $3x^{-2} + 5$ B) $\sqrt{x} + 7$ C) $4x^{\frac{1}{2}} - x$ D) $2x^3 - 7x + 9$

9. Degree of the polynomial $(x^2 + 1)(x^3 - 2)$ is

- A) 2 B) 3 C) 5 D) 6

10. If $10^a = 0.00001$, then the value of a is

- A) -2 B) -3 C) -4 D) -5

11. If p is rational number and q is an irrational number, when can pq be rational ?

- A) Always B) never C) only when $p=0$ D) only when $p=1$

12. By what number should $\frac{-15}{729}$ be multiplied to get $\frac{5}{81}$?

- A) 3 B) -3 C) $-\frac{1}{3}$ D) $\frac{1}{3}$