

NAME :

CLASS &amp; SEC. :

## STD – 9 – MATHS – ONE MARK



## Multiple Choice Questions

- If  $n$  is a natural number then  $\sqrt{n}$  is
  - always a natural number.
  - always an irrational number.
  - always a rational number.
  - may be rational or irrational
- Which of the following is not true?
  - Every rational number is a real number.
  - Every integer is a rational number.
  - Every real number is an irrational number.
  - Every natural number is a whole number.
- Which one of the following, regarding sum of two irrational numbers, is true?
  - always an irrational number.
  - may be a rational or irrational number.
  - always a rational number.
  - always an integer.
- Which one of the following has a terminating decimal expansion?
  - $\frac{5}{64}$
  - $\frac{8}{9}$
  - $\frac{14}{15}$
  - $\frac{1}{12}$
- Which one of the following is an irrational number
  - $\sqrt{25}$
  - $\sqrt{\frac{9}{4}}$
  - $\frac{7}{11}$
  - $\pi$
- An irrational number between 2 and 2.5 is
  - $\sqrt{11}$
  - $\sqrt{5}$
  - $\sqrt{2.5}$
  - $\sqrt{8}$
- The smallest rational number by which  $\frac{1}{3}$  should be multiplied so that its decimal expansion terminates with one place of decimal is
  - $\frac{1}{10}$
  - $\frac{3}{10}$
  - 3
  - 30
- If  $\frac{1}{7} = 0.\overline{142857}$  then the value of  $\frac{5}{7}$  is
  - $0.\overline{142857}$
  - $0.\overline{714285}$
  - $0.\overline{571428}$
  - 0.714285
- Find the odd one out of the following.
  - $\sqrt{32} \times \sqrt{2}$
  - $\frac{\sqrt{27}}{\sqrt{3}}$
  - $\sqrt{72} \times \sqrt{8}$
  - $\frac{\sqrt{54}}{\sqrt{18}}$
- $0.\overline{34} + 0.\overline{34} =$ 
  - $0.\overline{687}$
  - $0.\overline{68}$
  - $0.\overline{68}$
  - $0.6\overline{87}$
- Which of the following statement is false?
  - The square root of 25 is 5 or -5
  - $-\sqrt{25} = -5$
  - $\sqrt{25} = 5$
  - $\sqrt{25} = \pm 5$
- Which one of the following is not a rational number?
  - $\sqrt{\frac{8}{18}}$
  - $\frac{7}{3}$
  - $\sqrt{0.01}$
  - $\sqrt{13}$
- $\sqrt{27} + \sqrt{12} =$ 
  - $\sqrt{39}$
  - $5\sqrt{6}$
  - $5\sqrt{3}$
  - $3\sqrt{5}$
- If  $\sqrt{80} = k\sqrt{5}$ , then  $k =$ 
  - 2
  - 4
  - 8
  - 16
- $4\sqrt{7} \times 2\sqrt{3} =$ 
  - $6\sqrt{10}$
  - $8\sqrt{21}$
  - $8\sqrt{10}$
  - $6\sqrt{21}$
- When written with a rational denominator, the expression  $\frac{2\sqrt{3}}{3\sqrt{2}}$  can be simplified as
  - $\frac{\sqrt{2}}{3}$
  - $\frac{\sqrt{3}}{2}$
  - $\frac{\sqrt{6}}{3}$
  - $\frac{2}{3}$
- When  $(2\sqrt{5} - \sqrt{2})^2$  is simplified, we get
  - $4\sqrt{5} + 2\sqrt{2}$
  - $22 - 4\sqrt{10}$
  - $8 - 4\sqrt{10}$
  - $2\sqrt{10} - 2$
- $(0.000729)^{\frac{-3}{4}} \times (0.09)^{\frac{-3}{4}} =$ 
  - $\frac{10^3}{3^3}$
  - $\frac{10^5}{3^5}$
  - $\frac{10^2}{3^2}$
  - $\frac{10^6}{3^6}$
- If  $\sqrt[3]{9^x} = \sqrt[3]{9^2}$ , then  $x =$ 
  - $\frac{2}{3}$
  - $\frac{4}{3}$
  - $\frac{1}{3}$
  - $\frac{5}{3}$
- The length and breadth of a rectangular plot are  $5 \times 10^5$  and  $4 \times 10^4$  metres respectively. Its area is \_\_\_\_\_.
  - $9 \times 10^1 \text{ m}^2$
  - $9 \times 10^9 \text{ m}^2$
  - $2 \times 10^{10} \text{ m}^2$
  - $20 \times 10^{20} \text{ m}^2$

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