



# VIDYA BHAWAN, BALIKA VIDYAPITH

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(Affiliated to CBSE up to +2 Level)

CLASS: X

SUB.: MATHS (NCERT BASED)

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## REVISION

Below are the MCQs for chapter 1-Real Numbers.

1. The decimal expansion of  $120/(3^2 \times 5^7)$  is

- (a) Terminating (b) Non-terminating  
(c) Non-terminating and Non-repeating (d) None of the above

Answer: (b)

Explanation:  $120/((3^2 \times 5^7)) = 0.000170666666...$

2. For some integer n, the odd integer is represented in the form of:

- (a) n (b) n+1 (c) 2n+1 (d) 2n

Answer: (c)

Explanation: Since 2n represents the even numbers, hence 2n+1 will always represent the odd numbers. Suppose if n=2, then 2n=4 and 2n+1 = 5.

3. HCF of 26 and 91 is:

- (a) 15 (b) 13 (c) 19 (d) 11

Answer: (b)

Explanation: The prime factorisation of 26 and 91 is;

$$26 = 2 \times 13$$

$$91 = 7 \times 13$$

Hence, HCF (26,91) = 13

4. Which of the following is not irrational?

- (a)  $(3+\sqrt{7})$  (b)  $(3-\sqrt{7})$  (c)  $(3+\sqrt{7})(3-\sqrt{7})$  (d)  $3\sqrt{7}$

Answer: (c)

Explanation: If we solve,  $(3+\sqrt{7})(3-\sqrt{7})$ , we get;

$$(3+\sqrt{7})(3-\sqrt{7}) = 3^2 - (\sqrt{7})^2 = 9 - 7 = 2 \text{ [By } a^2 - b^2 = (a-b)(a+b)]$$

5. The addition of a rational number and an irrational number is equal to:

- (a) rational number (b) Irrational number (c) Both (d) None of the above

Answer: (b)

6. The multiplication of two irrational numbers is:

(a)irrational number (b)rational number (c)Both (d)None

Answer: (a)

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7.If set  $A = \{1,2,3,4,5,\dots\}$  is given, then it represents:

(a)Whole numbers(b)Rational Numbers(c)Natural numbers(d)Integers

Answer: (c)

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8. If  $p$  and  $q$  are integers and is represented in the form of  $p/q$ , then it is a:

(a)Whole numbers(b)Rational numbers(c)Natural numbers(d)Even numbers

Answer: (b)

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9. The largest numbers that divide 70 and 125, which leaves the remainders 5 and 8, is:

(a)65 (b)15 (c)13 (d)25

Answer: (c)

Explanation:  $70 - 5 = 65$  and  $125 - 8 = 117$

HCF (65, 117) is the largest number that divides 70 and 125 and leaves remainder 5 and 8

HCF (65, 117) = 13

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10.The least number that is divisible by all the numbers from 1 to 5.

(a)70 (b)60 (c)80 (d)90

Answer: (b)

Explanation: The least number will be LCM of 1,2,3,4,5.

Hence, LCM (1,2,3,4,5) =  $2 \times 2 \times 3 \times 5 = 60$

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