



VIDYA BHAWAN, BALIKA VIDYAPITH

Shakti Utthan Ashram, Lakhisarai-811311(Bihar)

(Affiliated to CBSE up to +2 Level)

CLASS:10TH

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SUB.:MATHEMATICS

Question 1.What is the HCF of the smallest composite number and the smallest prime number?

Question 2.The decimal representation of 61250 will terminate after how many places of decimal?.

Question 3.If HCF of a and b is 12 and product of these numbers is 1800. Then what is LCM of these numbers?

Question 4.What is the HCF of $3^3 \times 5$ and $3^2 \times 5^2$?

Question 5.if a is an odd number, b is not divisible by 3 and LCM of a and b is P, what is the P ?

Question 7.Two positive integers p and q can be expressed as $p = ab^2$ and $q = a^2b$, a and b are prime numbers. What is the LCM of p and q?

Question 8.A number N when divided by 14 gives the remainder 5. What is the remainder Question 9.Examine whether 1730 is a terminating decimal or not.

Question 10.What are the possible values of remainder r, when a positive integer a is divided by 3?

Question 11.A rational number in its decimal expansion is 1.7351. What can you say about the prime factors of q when this number is expressed in the form $\frac{p}{q}$? Give reason.

Question 12.Without actually performing the long division, find 98710500 will have

Questions Short Answer Type 1

Question 1.Can the number 4^n , n be a natural number, end with the digit 0? Give reason.

Question 2. Write whether the square of any positive integer can be of the form $3m + 2$, where m is a natural number. Justify your answer.

Question 3. Can two numbers have 18 as their HCF and 380 as their LCM? Give reason.

Question 4. Write a rational number between $\sqrt{3}$ and $\sqrt{5}$.

Question 5. The product of two consecutive integers is divisible by 2. Is this statement true or false? Give reason.

Question 6. Explain why $3 \times 5 \times 7 + 7$ is a composite number.

Question 7. What is the least number that is divisible by all the numbers from 1 to 10?

Question 8. Find the sum $0.\overline{68} + \overline{.73}$