

## **MATHS**

# BOOKS - KALYANI MATHS (ASSAMESE ENGLISH)

RECAPITULATION: RATIONAL AND IRRATIONAL NUMBERS

Example

**1.** Show the following fractions have terminating decimal expression.

 $\frac{225}{9}$ 



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**2.** Show the following fractions have terminating decimal expression.

 $\frac{664}{625}$ 



**3.** Show the following fractions have terminating decimal expression.

 $\frac{426}{500}$ 



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**4.** Show that the following decimal expression can be put in the form of  $\frac{p}{q}$  , where q is of the form of  $2^m$ .  $5^n$ .

3.78125



**5.** Show that the following decimal expression can be put in the form of  $\frac{p}{q}$  , where q is of the form of  $2^m$ .  $5^n$ .





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**6.** Show that the following decimal expression can be put in the form of  $\frac{p}{q}$  , where q is of the form of  $2^m$ .  $5^n$ .

1.2315





**7.** Show that  $2 + \sqrt{3}$  is an irrational number.



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**8.** Prove that  $\sqrt{2}+\sqrt{3}$  is irrational.





**1.** Stane Euclid's division lemma.



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**2.** What is an algorithm?



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**3.** Write down the form of any positive integer:

When it is dividing by 2.



**4.** Write down the form of any positive integer: When it is dividing by 3.



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**5.** Write down the form of any square of an positive integer.



**6.** What is the HCF of two numbers when one of it is zero?



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**7.** What is the HCF and LCM of two prime numbers p and q?



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**8.** What is the LCM of x and y if the HCF is r?



**9.** If  $2^a \cdot 3^b \cdot 5^c = 10800$ , find a, b, c.



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**10.** If  $a^4 \cdot b^2 \cdot c = 1008$  find a, b, c.



11. If the product and LCM of two quantities are  $ab^2c$  and abc respectively What is their HCF?



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**12.** If the product and LCM of two quantities are  $ab^2c$  and abc respectively

What may be two quantit



13. Without performing the division state  $\frac{9}{1600} \text{ will be a terminating decimal or not.}$ 



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14. Fill In the blanks:

\_\_\_\_ is neither prime nor composite



15. Fill In the blanks:

The only even prime number is\_\_\_\_.



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16. Fill In the blanks:

Sum of two irrational number is .\_\_\_\_but its product may not be .



## 17. Fill In the blanks:

There are infinite irrational numbers between any two \_\_\_\_ numbers.



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## 18. Fill In the blanks:

The \_\_\_of HCF and LCM of two numbers is

\_\_\_\_to the product of the numbers.



**19.** Euclid's division Lemma states that if a and b are any two positive integers,then there exists unique integers q and r such that

A. 
$$0 < r < b$$

$$\mathsf{B.}\, 0 \leq r \leq b$$

$$C.0 \le r \le b$$

D. 
$$0 < r \le b$$

### **Answer:**



## **20.** HCF(a, b) equals to

- A. HCF (b, r)
- B. HCF (q, r)
- C. HCF (a, r)
- D. None.

### **Answer:**



**21.** If LCM(91, 26) = 182, then HCF(91, 26)

A. 13

B. 23

**C**. 7

D. None.

## **Answer:**



22. The largest number which divides 74 and

88 leaving remainde 2 ad 4 respectively is

- A. 10
- B. 14
- C. 12
- D. 16

## **Answer:**



**23.** The least number that is divisible by all the numbers from 1 to 3 is

- A. 20
- B. 10
- C. 30
- D. 60

## **Answer:**

