

c) 360

d) 540

7) The simplest form of $\frac{1095}{1168}$ is

a) $\frac{17}{26}$

b) $\frac{25}{26}$

c) $\frac{13}{16}$

d) $\frac{15}{16}$

8) 2.131131111311113... is a

a) an integer

b) a rational number

c) an irrational number

d) none of these

9) π is

a) an integer

b) a rational number

c) an irrational number

d) none of these

10) Which of the following has a terminating expansion?

a) $\frac{32}{91}$

b) $\frac{19}{80}$

c) $\frac{23}{45}$

d) $\frac{25}{42}$

SUBJECTIVE TYPE :

1) Prove that $5 + 2\sqrt{3}$ is an irrational number.

2) Find the largest number that will divide 398, 436 and 542 leaving remainders 7, 11, 15 respectively.

(Ans: 17)

3) The LCM of two numbers is 23 and their L.C.M is 1449. If one of the numbers is 161, find the other.

(Ans: 207)

4) Prove that $\sqrt{3}$ is an irrational number.

5) Express 1080 as a product of prime factors.

6) Explain why $7 \times 11 \times 13 + 13$ is a composite number.

7) Use Euclid's algorithm to find the HCF of 1651 and 2032. Express the HCF in the form of $1651m + 2032n$. Also find the values of m and n .

8) An electronics device makes a beep after every 60 seconds. Another device makes a beep after every 62 seconds. They beeped together at 10:00 a.m. At what time will they beep together at the earliest?

9) Given that $\text{HCF}(306, 657) = 9$, Find the $\text{LCM}(306, 657)$. (Ans: 22338)

10) three pieces of timber 42m, 49m and 63m long have to be divided into planks of the same length. What is the greatest possible length of each plank. (Ans; 7m, 22 planks)