

Chapter 01

Real Number

1 Mark Questions

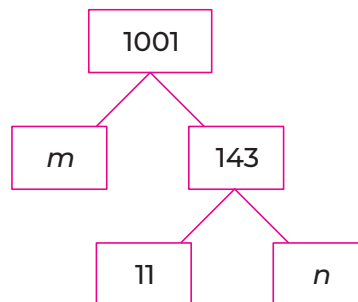
- Find the decimal expansion of $\frac{289}{225}$.
(a) 0.28 (b) 1.82
(c) 1.28 (d) None of these
- What is the LCM of 140, 172, 196 ?
(a) 42140 (b) 41240
(c) 41420 (d) 44120
- If m is any natural number, then $6^m - 5^m$ always ends with
(a) 5 (b) 2
(c) 4 (d) 1
- What is the largest number which divides 615 and 963 leaving remainder 6 in each case?
(a) 87 (b) 85
(c) 89 (d) 92
- If HCF of 306 and 657 is 9, then find their LCM.
(a) 112288 (b) 223388
(c) 123485 (d) 22338
- The rational form of $0.25\overline{4}$ is in the form of p/q , then $(p + q)$ is
(a) 79 (b) 69
(c) 14 (d) 55

7. Which of the following rational number have non-terminating repeating decimal expansion?

(a) $\frac{31}{3125}$
(c) $\frac{23}{200}$

(b) $\frac{71}{512}$
(d) None of these

8. The value of m and n in the given figure are:



(a) 7, 13
(c) 9, 11

(b) 4, 12
(d) 12, 9

9. Find the HCF of 135 and 225.

(a) 40
(c) 45

(b) 35
(d) 55

10. The decimal expansion of the rational number $\frac{43}{2^4 \times 5^3}$ will terminate after how many places of decimal?

(a) 3
(c) 5

(b) 4
(d) 2

2 Marks Questions

11. Atishya has two vessels which contain 720 mL and 405 mL of milk respectively. Milk in each vessels is poured into glasses of equal capacity to their brim. Find the minimum number of glasses which can be filled with milk.

(a) 25
(c) 40

(b) 45
(d) 30

12. Match the following:

Column I	Column II
A. Rational form of $0.\overline{30}$	1. $14/55$
B. Rational form of $0.2\overline{4}$	2. $10/33$
C. Rational form of $0.\overline{3}$	3. $11/45$
D. Rational form of $0.25\overline{4}$	4. $1/33$

- (a) $A \rightarrow 2$; $B \rightarrow 3$; $C \rightarrow 4$; $D \rightarrow 1$
 (b) $A \rightarrow 3$; $B \rightarrow 2$; $C \rightarrow 4$; $D \rightarrow 1$
 (c) $A \rightarrow 4$; $B \rightarrow 1$; $C \rightarrow 3$; $D \rightarrow 2$
 (d) None of these

13. A circular field has a circumference of 360 km. Three cyclists start together and they cycle 48, 60 and 72 km a day round the field. When will they meet again?

- (a) 35 days (b) 25 days
 (c) 30 days (d) 20 day

14. If the HCF of 210 and 55 is expressible in the form $210 \times 5 + 55y$, find y .

- (a) 20 (b) 19
 (c) -91 (d) -19

15. Two bills of ₹ 6075 and ₹ 8505 respectively are to be paid separately by cheques of same amount. Find the largest possible amount of each cheques.

- (a) ₹ 6125 (b) ₹ 1125
 (c) ₹ 1251 (d) ₹ 1215

Answers

1. (c)	2. (a)	3. (d)	4. (a)	5. (d)	6. (b)	7. (d)	8. (a)	9. (c)	10. (b)
11. (a)	12. (a)	13. (c)	14. (d)	15. (d)					