

NUMBER SYSTEM

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Practice Problems with Solution

Question 1: The HCF and LCM of two numbers is 13 and 455 respectively. If one number lies between 75 and 125 then that number is?

A: 78

B: 91

C: 104

D: 117

Question 2: The product of LCM and HCF of two numbers is 24. The difference of the two numbers is 2. Find the numbers?

A: 8 and 6

B: 8 and 10

C: 2 and 4

D: 6 and 4

Question 3: The number whose square is equal to the difference of the squares of numbers 68 and 32 is?

A: 36

B: 48

C: 60

D: 64

Question 4: The sum of a positive integer and its square is 2450. The positive integer is?

- A: 45
- B: 48
- C: 49
- D: 50

Question 5: The product of two numbers is 45 and their difference is 4. The sum of squares of the two numbers is?

- A: 135
- B: 200
- C: 73
- D: 106

Question 6: The least number that must be added to 1720 so as to obtain a perfect cube is?

- A: 7
- B: 8
- C: 11
- D: 13

Question 7: The least number which divides 37044 gives the result a perfect cube is?

- A: 2
- B: 4
- C: 14
- D: 21

Question 8: If two numbers x and y separately divided by a number d remainders obtained are 4375 and 2986 respectively. If the sum of the numbers $(x+y)$ is divided by the same number d remainder obtained is 2361. The value of d is?

- A: 7361
- B: 5000
- C: 4000
- D: 2542

Question 9: A farmer divides his herd of n cows among his four sons so that the first son gets one half of the herd, second gets $1/4^{\text{th}}$, the third gets $1/5^{\text{th}}$ and the fourth gets 7 cows. Find n ?

- A: 80
- B: 100
- C: 140
- D: 180

Question 10: In an examination a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. A student attempted all the 200 questions and scored 200 marks. No. of correct answers were?

- A: 82
- B: 80
- C: 68
- D: 60

Answers and Solutions

1:- B, 91

2:- D, 6 and 4

3:- C, 60

4:- C, 49

5:- D, 106

6:- B, 8

7:- B, 4

8:- B, 5000

9:- C, 140

10:- B, 80

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