



Number System Questions for RRB NTPC Set-4 PDF

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Instructions

For the following questions answer them individually

Question 1

Find the least number which should be subtracted from 9999 so that the difference is exactly divisible by 16?

- A 15
- B 12
- C 14
- D 13

Answer: A

Explanation:

$$\frac{9999}{16} = 624\frac{15}{16}$$

$$\frac{15}{16} \times 16 = 15$$

This 15 is needed to be subtracted from 9999 to get a number which is exactly divisible by 16

Option A is correct.

Question 2

The LCM and HCF of two numbers are 4284 and 32, respectively. If one of the numbers is 672, then the second number is;

- A 102
- B 64
- C 204
- D 92

Answer: C

Explanation:

HCF is 32

LCM is 4284

Let the other number be x

We know that HCF * LCM = produce of 2 numbers.

$$32 \times 4284 = 672 \times x$$

$$x = \frac{32 \times 4284}{672}$$

$$x = 204$$

Option C is correct.

Question 3

Let n be the number of different 5-digit numbers divisible by 4, with the digits 4, 5, 6, 7, 8 and 9, no digit being repeated in the numbers. What is the value of n ?

- A 8
- B 24
- C 168

D 192

Answer: C

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Question 4

The LCM of 56, 84 and 112 is:

A 210

B 336

C 420

D 168

Answer: B

Explanation:

Find the prime factorization of 56,84,112

$$56 = 2 \times 2 \times 2 \times 7 \dots\dots\dots i)$$

$$84 = 2 \times 2 \times 3 \times 7 \dots\dots\dots ii)$$

$$112 = 2 \times 2 \times 2 \times 2 \times 7 \dots\dots\dots iii)$$

Multiply each factor the greater number of times it occurs in steps i) , ii) or iii) above to find the lcm:

$$\text{LCM} = 2 \times 2 \times 2 \times 2 \times 3 \times 7$$

$$= 336$$

Question 5

The HCF of 42, 63 and 105 is:

A 7

B 630

C 63

D 21

Answer: D

Explanation:

$$42 = 2 \times 3 \times 7$$

$$63 = 3 \times 3 \times 7$$

$$105 = 3 \times 5 \times 7$$

Taking the common factors, the HCF would be 21.

So , the answer would be option d)21.

Question 6

Three bells ring at intervals of 15, 30 and 45 minutes respectively. At what time will they ring together again, if they rang simultaneously at 8.00 AM ?

A 8.30 AM

B 9.30 AM

C 9.00 AM

D 8.45 AM

Answer: B

Explanation:

Given that three bells rang at intervals of 15, 30 and 45 minutes respectively. They will together ring again in 90 minutes (LCM of 15, 30, 45).

90 minutes = 01 : 30 hours

Then, After 8 : 00 AM, they will again ring together in 08 : 00 + 01 : 30 = 09 : 30 AM

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Question 7

Find the least number that is divisible by 12, 18, 21, and 30

A 1020

B 1260

C 1620

D 1060

Answer: B

Explanation:

$$12 = 2 \times 2 \times 3$$

$$18 = 2 \times 3 \times 3$$

$$21 = 3 \times 7$$

$$30 = 2 \times 3 \times 5$$

Select the common terms

$$\text{LCM} = 2 \times 2 \times 3 \times 3 \times 5 \times 7$$

$$= 1260$$

Question 8

Find the LCM of ab^2c^2 , a^2bc and $a^3b^3c^2$.

A abc

B $a^2b^2c^2$

C $a^3b^3c^2$

D $a^3b^3c^3$

Answer: C

Explanation:

ab^2c^2 , a^2bc and $a^3b^3c^2$.

LCM

| | |
|-----|-----------------------------|
| abc | $ab^2c^2, a^2bc, a^3b^3c^2$ |
| bc | bc, a, a^2b^2c |
| a | $1, a, a^2b$ |
| | $1, 1, ab$ |

$$= (abc) \times (bc) \times (a) \times (ab)$$

$$= a^3b^3c^2$$

Question 9

Find the largest two-digit prime number.

- A 91
- B 97
- C 93
- D 89

Answer: B

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Question 10

What is the difference between the place and face values of '5' in the number 3675149?

- A 4995
- B 5000
- C 495
- D 4990

Answer: A

Explanation:

Given number = 3675149

Face value of 5 = 5

Place value of 5 = 5000

difference between the place and face values of '5' in the number 3675149 = 5000 - 5 = 4995

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