



## ssc cgl questions on remainder PDF

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### Instructions

For the following questions answer them individually

#### Question 1

The difference between two numbers is 1146. When we divide the larger number by smaller we get 4 as quotient and 6 as remainder. Find the larger number.

- A 1526
- B 1431
- C 1485
- D 1234

Answer: A

#### Explanation:

Let the smaller number be  $x$  and the larger number =  $(x + 1146)$

According to ques, on dividing the larger term by smaller one,

$$\Rightarrow (x + 1146) = 4x + 6$$

$$\Rightarrow 4x - x = 1146 - 6$$

$$\Rightarrow 3x = 1140$$

$$\Rightarrow x = \frac{1140}{3} = 380$$

$$\therefore \text{Larger number} = 380 + 1146 = 1526$$

$\Rightarrow$  Ans - (A)

#### Question 2

A number between 1000 and 2000 which when divided by 30, 36 & 80 gives a remainder 11 in each case is

- A 1451
- B 1641
- C 1712
- D 1523

Answer: A

#### Explanation:

LCM of given 3 numbers  $(30, 36, 80) = 720$

Multiple of 720 between 1000 and 2000 is 1440.

$$\therefore \text{Number which gives a remainder 11 in each case } (1440 + 11) = 1451$$

Hence, option A is the correct answer.

#### Question 3

What is the highest number which when divides the numbers 1026, 2052 and 4102, leave remainders 2, 4 and 6 respectively.

- A 512
- B 1024
- C 128

D 256

Answer: B

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### Question 4

Let  $x$  be the smallest number greater than 600 which gives the remainders 2, 3 and 4, when divided by 5, 6 and 7, respectively. The sum of digits of  $x$  is:

A 14

B 15

C 13

D 16

Answer: B

### Question 5

When 5, 6, 8, 9 and 12 divide the least number  $x$ , the remainder each case is 1, but  $x$  is divisible by 13. What will be the remainder when  $x$  is divided by 31?

A 0

B 1

C 3

D 5

Answer: D

### Question 6

Let  $x$  be the greatest number which when divides 6475, 4984 and 4132, the remainder in each case is the same. What is the sum of digits of  $x$ ?

A 4

B 7

C 5

D 6

Answer: D

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### Question 7

A number, when divided by 114, leaves remainder 21. If the same number is divided by 19, then the remainder will be

A 1

B 2

C 7

D 17

Answer: B

**Explanation:**

Let the given number be  $x$

Let  $a$  be the quotient when  $x$  is divided by 114

$$\text{So } 114 = a \cdot 114$$

$$\text{so } x = 114a + 21$$

when  $x$  is divided by 19 it can be written as

$$\frac{x}{19} = \frac{114a+21}{19}$$

114 is divisible by 19 and 21 leaves a remainder of 2.

**Question 8**

A number, when divided by 136, leaves remainder 36. If the same number is divided by 17, the remainder will be

A 9

B 7

C 3

D 2

Answer: D

**Explanation:**

Number will be  $(136n + 36)$  where  $n$  is quotient

hence when it is divided by 17 remainder for  $\frac{136n+36}{17}$  will be 2 as 136 is divisible by 17 and  $36=34+2$

**Question 9**

When 'n' is divided by 5 the remainder is 2. What is the remainder when  $n^2$  is divided by 5?

A 2

B 3

C 1

D 4

Answer: D

**Explanation:**

$n = 5k+2$  (where  $k$  is quotient)

$$\text{so } n^2 = 25k^2 + 4 + 20k$$

Now when  $n^2$  will be divided by 5, remainder will be 4.

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**Question 10**

If  $17^{200}$  is divided by 18, the remainder is

A 1

B 2

C 16

D 17

Answer: A

Explanation:

$$17^{200} = (18 - 1)^{200}$$

Hence, when it is divided by 18, the remainder equals  $(-1)^{200} = 1$

Question 11

The least multiple of 13 which when divided by 4, 5, 6, 7 leaves remainder 3 in each case is

A 3780

B 3783

C 2520

D 2522

Answer: B

Explanation:

Number will be equal to  $420t + 3 = 13M$

put values of M and t accordingly and find least value of it.

Question 12

A number x when divided by 289 leaves 18 as the remainder. The same number when divided by 17 leaves y as a remainder. The value of y is

A 2

B 3

C 1

D 5

Answer: C

Explanation:

The number is of the form  $289n + 18$ .

Which is equal to  $17 \cdot (17n + 1) + 1$

So, when the number is divided by 17, the remainder is 1

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Question 13

The least number which when divided by 6, 9, 12, 15 and 18 leaves the same remainder 2 in each case is :

A 180

B 182

C 178

D 176

Answer: B

**Explanation:**

The numbers 6,9,12,15,18 leaves same remainder 2 in each case.

So, what we need to do is find the L.C.M. of these numbers and add 2 to it

=> L.C.M. of 6,9,12,15,18 = 180

=> Required no. = 180+2 = 182

**Question 14**

For any integral value of n,  $3^{2n} + 9n + 5$  when divided by 3 will leave the remainder.

A 1

B 2

C 0

D 5

**Answer: B**

**Explanation:**

Expression =  $3^{2n} + 9n + 5$

=  $3^{2n} + 9n + 3 + 2$

Taking 3 common from each term, we get :

=>  $3(3^{2n-1} + 3n + 1) + 2$

Now, if we divide the above term by 3, remainder will be 2.

**Question 15**

Find the least number which when divided by 12, 18, 36 and 45 leaves the remainder 8, 14, 32 and 41 respectively.

A 186

B 176

C 180

D 178

**Answer: B**

**Explanation:**

Since,  $(12-8) = (18-14) = (36-32) = (45-41) = 4$

we, need to find the L.C.M. of 12,18,36,45 and subtract 4 from it to get the required answer.

=> L.C.M. of 12, 18, 36 and 45 = 180

=>  $180 - 4 = 176$

Ans - (B)

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