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## SSC CGL \& CHSL Quant Number System Asked Questions

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## Instructions

For the following questions answer them individually

## Question 1

What is that least digit that must be added to the product $5786 \times 5784$ to make it a perfect square?

A 1
B 6

C 5

D 4
Answer: A

## Explanation:

Expression : $5786 \times 5784$
$=(5785+1) \times(5785-1)$
Let $5785=x$
$=>(x+1)(x-1)=x^{2}-1$
Clearly to make above term a perfect square, we need to add 1
$=>x^{2}-1+1=x^{2}$
$=>$ Ans - (A)

## Question 2

Sum of four times a fraction and 7 times its reciprocal is $\mathbf{1 6}$. What is the fraction?

A $2 / 7$

B $7 / 2$
C $4 / 7$

D $7 / 4$
Answer: B

## Explanation:

Let that fraction be ${ }_{x}^{1}$
$4\left({ }^{1}\right)+7 x=16$
$\Rightarrow\left(4+7 x^{2}\right)=16 \times x$
$\Rightarrow 7 x^{2}-16 x+4=0$
$\Rightarrow\left(x-\frac{14}{7}\right)\left(x-\frac{2}{7}\right)=0$
$\Rightarrow(x-2)\left(x-{ }_{7}^{2}\right)=0$
$\Rightarrow x=2$ or $2 / 7$
$\Rightarrow$ fraction $={ }_{x}^{1}=1 / 2($ or $) 7 / 2$
so the answer is option B.

## Question 3

Which of the following is NOT prime number?

A 251
B 571

C 331

D 341
Answer: D

## Explanation:

Prime factors of $341=11$ and 31
Hence, among the given numbers, 341 is not prime.
$=>$ Ans - (D)

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## Question 4

If 169 is subtracted from the square of a number, then the result obtained is 7056 . What is the number?

A 75

B 78

C 85

D 87
Answer: C

## Explanation:

Let the number be $x$
According to ques,
$=>x^{2}-169=7056$
$=>x^{2}=7056+169=7225$
$=>x=\sqrt{7225}=85$
$=>$ Ans - (C)
Question 5
What is the remainder when 2468 is divided by $37 ?$

A 26

B 36

C 18

D 14
Answer: A

## Explanation:


$37 * 66=2442$ is the least nearest multiple of 37 .
The remainder when 2468 is divided by $37=2468-2442=26$
so the answer is option A.

## Question 6

What is the average of all numbers between 8 and 74 which are divisible by 7 ?

A 40

B 41

C 42

D 43

## Answer: C

## Explanation:

The numbers between 8 and 74 which are divisible by 7 are $14,21,28,35,42,49,56,63,70$.
sum $=378$
average $=378 / 9=42$.
SHORTCUT:
average $=7 *($ average of $2,3,4,5,6,7,8,9,10)=7 *(6)=42$.
so the answer is option C.

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## Question 7

Sum of twice a fraction and its reciprocal is $17 / 6$. What is the fraction?

A $4 / 3$

B $5 / 4$

C $3 / 4$

D $4 / 5$
Answer: C

## Explanation:

Let that fraction be ${ }_{x}^{1}$
$2 \times{ }_{x}^{1}+x={ }_{6}^{17}$
$\Rightarrow\left(2+x^{2}\right)=\begin{gathered}17 \\ 6\end{gathered}$
$\Rightarrow 6 x^{2}-17 x+12=0$
$\Rightarrow\left(x-{ }_{6}^{6}\right)\left(x-{ }_{6}^{9}\right)=0$
$\Rightarrow x=4 / 3$ or $3 / 2$
$\Rightarrow$ fraction $={ }_{x}^{1}=3 / 4($ or $) 2 / 3$
so the answer is option C .
Question 8
When a number is increased by 120, it becomes $130 \%$ of itself. What is the number?

A 400

B 520


C 460
D 580
Answer: A

## Explanation:

$X+120=1.3 X$
$0.3 X=120$
$X=400$
so the answer is option A .

## Question 9

The sum of a fraction and 3 times its reciprocal is 19/4. What is the fraction?

A $3 / 4$
B $4 / 3$
C $5 / 4$
D $4 / 5$
Answer: A

## Explanation:

Let that fraction be ${ }_{x}^{1}$
${ }_{x}^{1}+3 x={ }_{4}^{19}$
$\Rightarrow\left(1+3 x^{2}\right)={ }_{4}^{19} \times x$
$\Rightarrow 12 x^{2}-19 x+4=0$
$\Rightarrow\left(x-{ }_{12}^{16}\right)(x-\stackrel{3}{12})=0$
$\Rightarrow\left(x-{ }_{3}^{4}\right)(x \neq \stackrel{1}{4})=0$
$\Rightarrow x=4 / 3$ or $1 / 4$
$\Rightarrow$ fraction $=\begin{aligned} & 1 \\ & x=3 / 4(\text { or }) 4\end{aligned}$
so the answer is option $A$.

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Question 10
What least number must be added to 329 , so that the sum is completely divisible by 7 ?

A 1

B 0

C 2
D 3


Answer: B

## Explanation: <br> 329 <br> ${ }_{7}^{9}=47$



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