



1 On dividing a certain number by 234, we get 43 as remainder. If the same number is divided by 13, what will be the remainder?

Toughness★★★★★

A. 6

B. 9

C. 4

D. 7

Close

Answer : (C) 4

Description : Solution : suppose that on dividing the given number by 234, we get quotient= x and remainder= 43 then, number= $234*x+43$ ----> (1).
 $(13*18x)+(13*3)+4 \Rightarrow 13*(18x+3)+4$. So, the number when divided by 13 gives remainder=4.

Tell us

Submit new question

Question is wrong

Answer is wrong

2 Find the remainder when 3^{27} is divided by 5?

Toughness★★★★★

A. 3

B. 2

C. 4

D. 1

Close

Answer : (B) 2

Description : Solution : $3^{27} = (3^4)^6 * (3^3) = (81^6) * 27$ then unit digit of (81^6) is 1 so on multiplying with 27, unit digit in the result will be 7. now, 7 when divided by 5 gives 2 as remainder.

Tell us

Submit new question

Question is wrong

Answer is wrong

3 How many natural numbers between 23 and 137 are divisible by 7?

Toughness★★★★★

A. 12

B. 17

C. 16

D. 13

Close

Answer : (C) 16

Description : Solution : These numbers are 28, 35, 42, ..., 133. This is in A.P. in which $a=28$, $d=(35-28)=7$ and $L=133$. Let the number of these terms be n . then,
 $T_n=133$ $a+(n-1)d=133$ by solving this we will get $n=16$.

Tell us

Submit new question

Question is wrong

Answer is wrong

- 4 597**6 is divisible by both 3 and 11. The non-zero digits in the Hundred's and ten's places are respectively:

Toughness★★★★★

- A. 3 and 6
B. 7 and 9
C. 2 and 6
D. 4 and 7

Close

Answer : (A) 3 and 6

Description : Solution : Let the given number be 597xy6. Then $(5+9+7+x+y+6)=(27+x+y)$ must be divisible by 3 And, $(6+x+9)-(y+7+5)=(x-y+3)$ must be either 0 or divisible by 11. $x-y+3=0 \Rightarrow y=x+3$ $27+x+y \Rightarrow (27+x+x+3) \Rightarrow (30+2x) \Rightarrow x=3$ and $y=6$.

Tell us

Submit new question

Question is wrong

Answer is wrong

- 5 what is the smallest number should be added to 5377 so that the sum is completely divisible by 7?

Toughness★★★★★

- A. 5
B. 4
C. 6
D. 2

Close

Answer : (C) 6

Description : Solution: Devide 5377 with 7 we get remainder as 1. so, add 6 to the given number so that it will divisible by 7.

Tell us

Submit new question

Question is wrong

Answer is wrong

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