



BASICS

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AFTERSCHOOL

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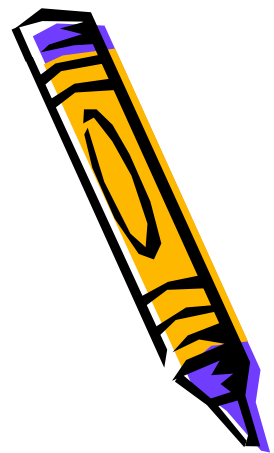
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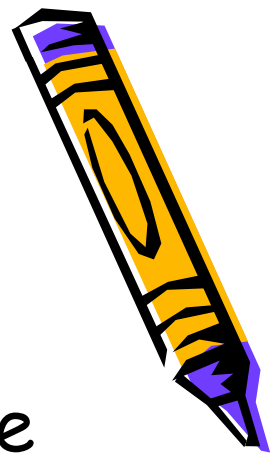
DIVISIBILITY RULES



- Any number, the total of whose digits is divisible by 3 or 9, will also be divisible by 3 & 9.
- Example: 123,123,123,123 is divisible by 3 but not by 9 (because the total is 24).



DIVISIBILITY RULES



- 4 - any number whose last two digits are divisible by 4, will be divisible by 4.
- For example: 879739572956 is divisible by 4 because 56 is divisible by 4 and
- 8 - any number whose last three digits are divisible by 8, will be divisible by 8.
- For example 789329483934856 is divisible by 8 because 856 is divisible by 8.

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Divisibility rules

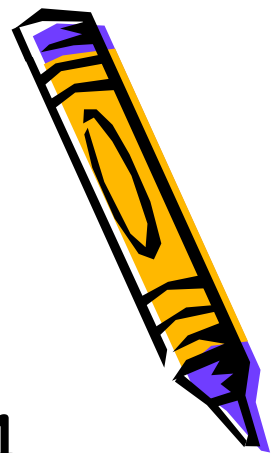


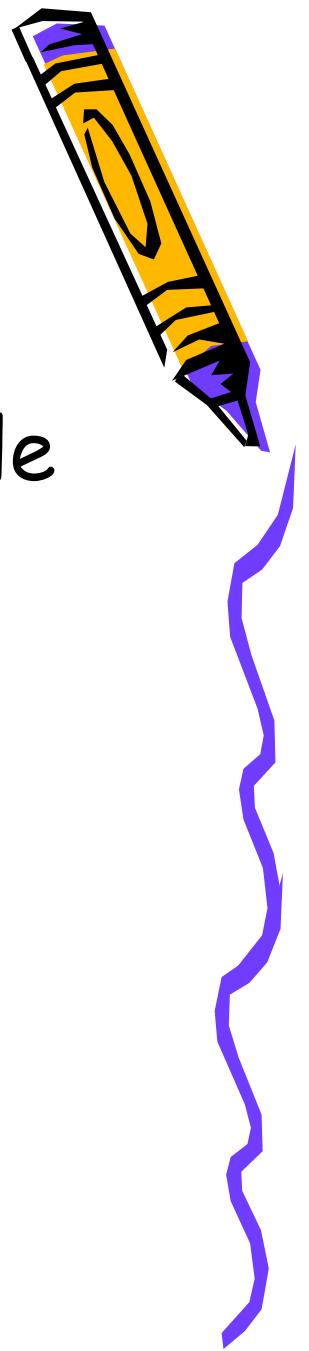
- 11 - any number, the sums of alternate digits is having difference of 0 or 11 or multiple of 11.
- 1,11,11,11,111 the total of alternate digits is 5, the difference of which is 0, therefore it is divisible by 11.
- 123423553 - sums
- sum of 13253 : 14; 2435 is 14
- Difference of 14 & 14 is 0 so it is divisible by 11.



Multiplicative rule:

- $12 * 12 =$ multiply last two digits - 4, put it. Cross multiply the other digits and add the answers put it.
- Multiply first digits $1 * 1 = 1$
- Answer ;144.





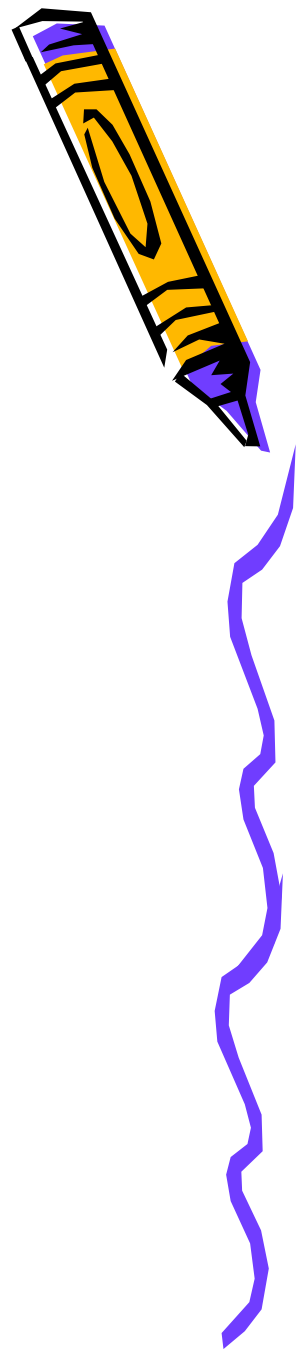
What are prime numbers:

- The numbers which are not divisible by any number are called prime numbers:
- Example:
2,3,5,7,11,13,17,19,23,29,31,37

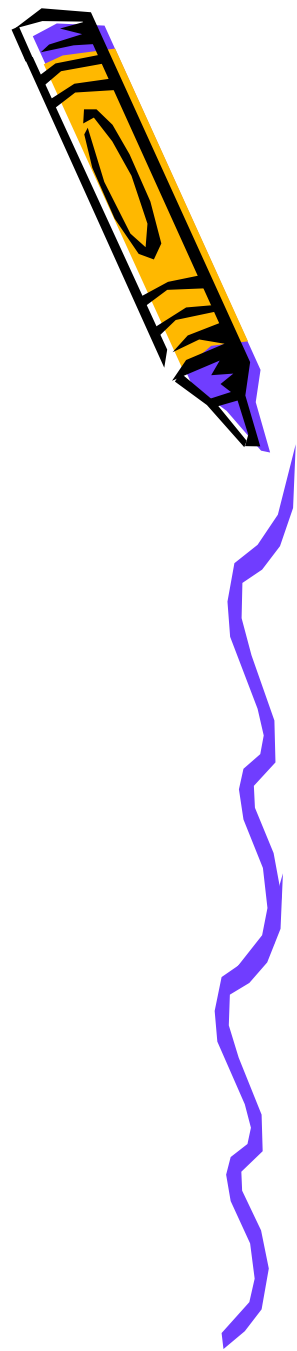


Smallest prime number:

- 2



How many prime factors can you identify in 12345?

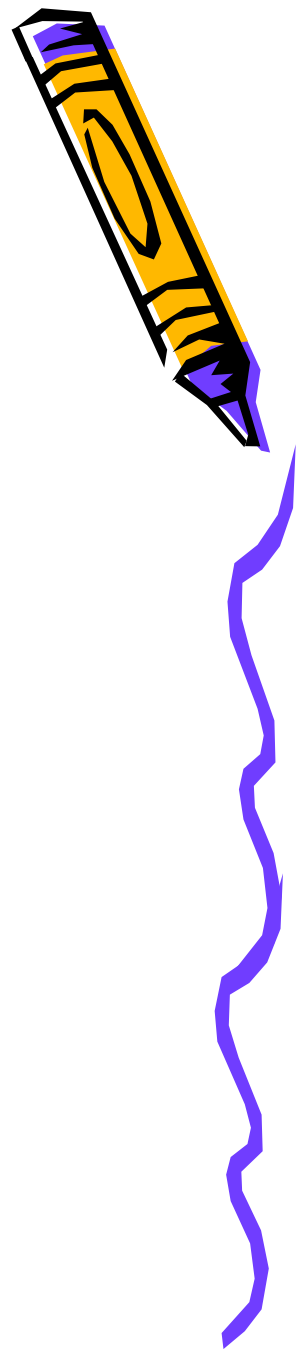


- Let us factorise it :
- $3 \cdot 5 \cdot 823$
- Ans = three :
- 3, 5, 823



What will come in the series? 2,5,8,11,14 ..

- It is an example of AP
- $14+3 = 17$ ans.



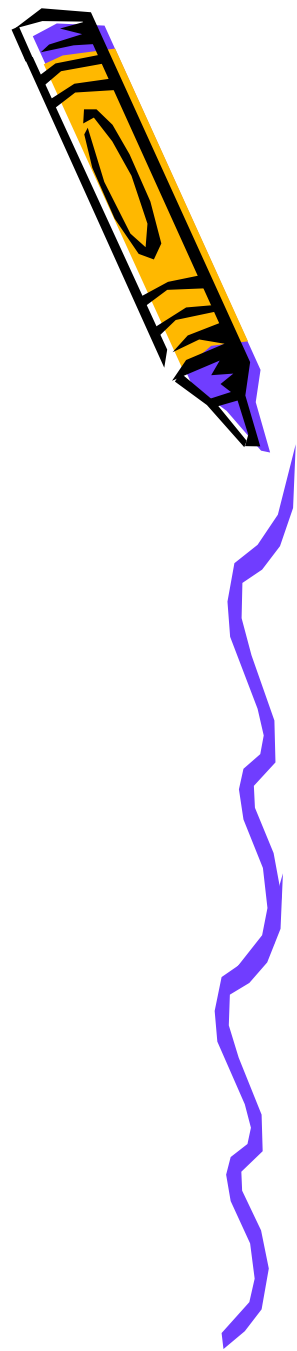
Will 23476 come in the series: 3:7:11 .. So on.



- The series 3 7 11 is AP, here A is 3. and difference is 4.
- To solve the question, first deduct A from the number: $23476 - 3 = 23473$
- Since 23473 is not divisible by 4 (D), therefore this number will not come in the series.



How many numbers will be there in the series 101, 107, 113 till it reaches four digits?

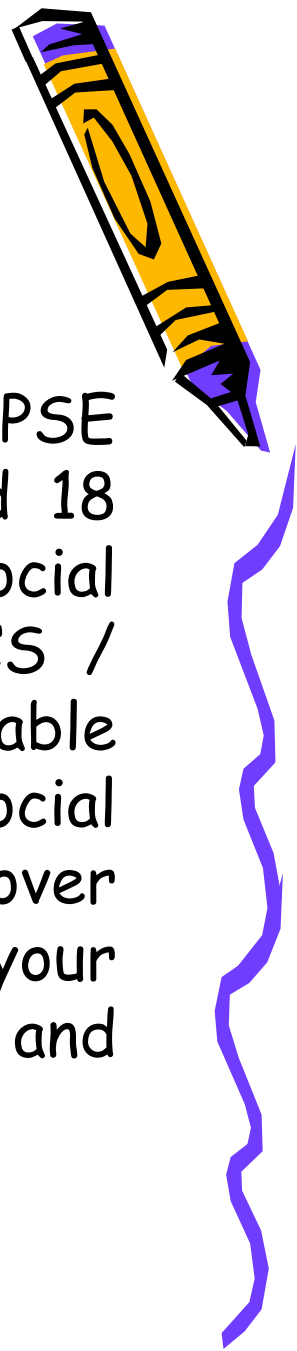


- Smallest 4 digit number: 1000
- $1000 - 101 = 899$ divided by 6 gives 149.
- $149 + 1 = 150$
- Thus there will be 150 numbers in the series. Ans



Thanks

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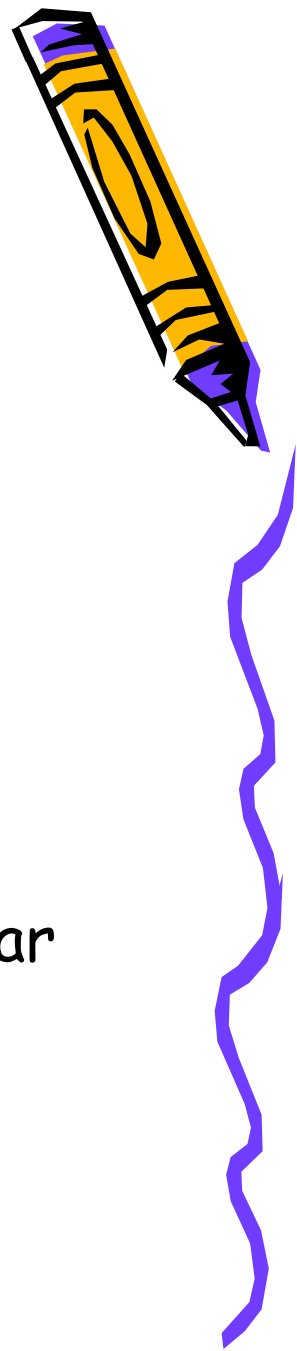
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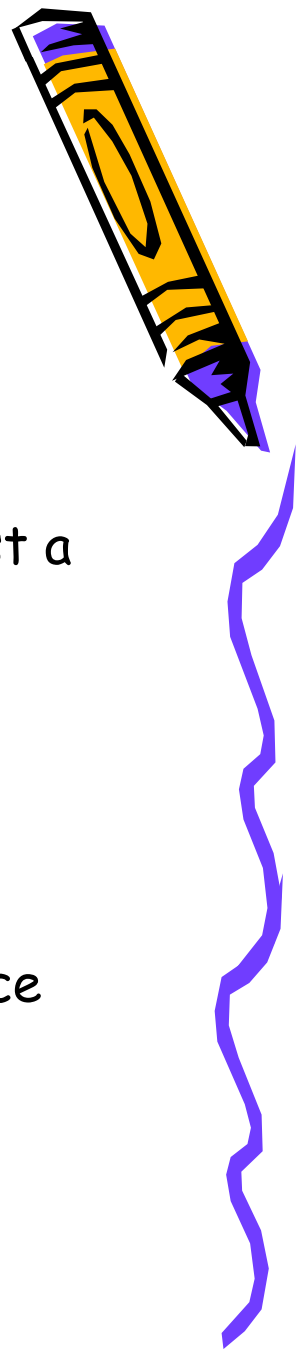


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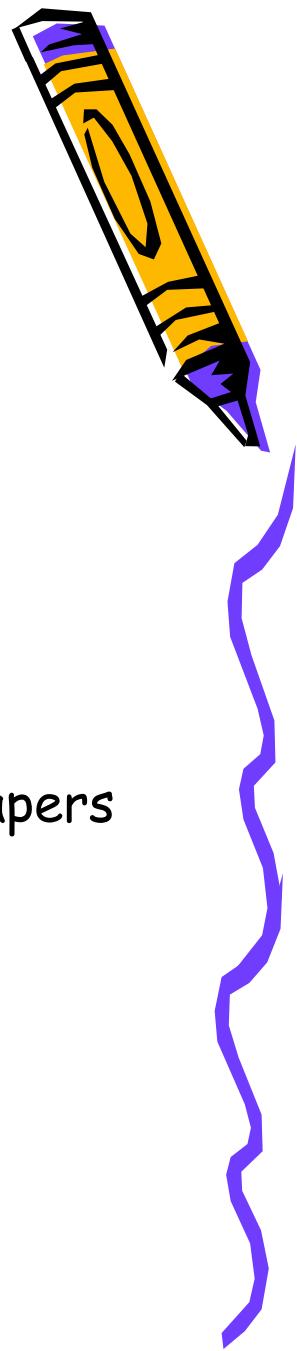
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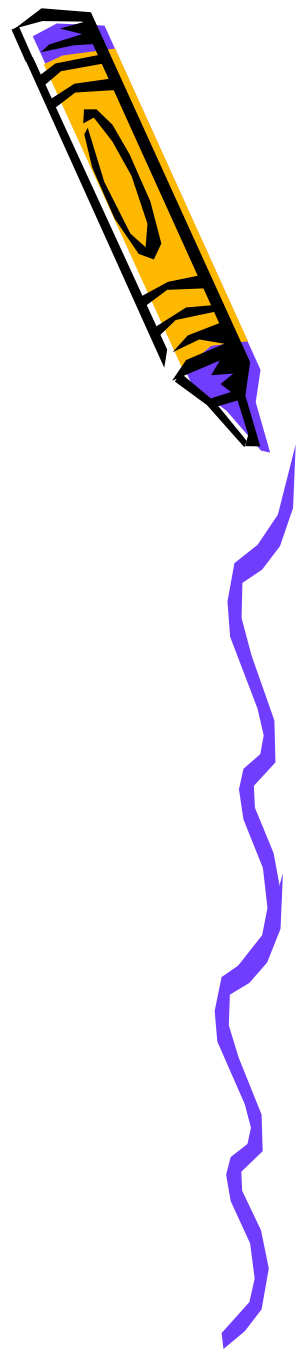
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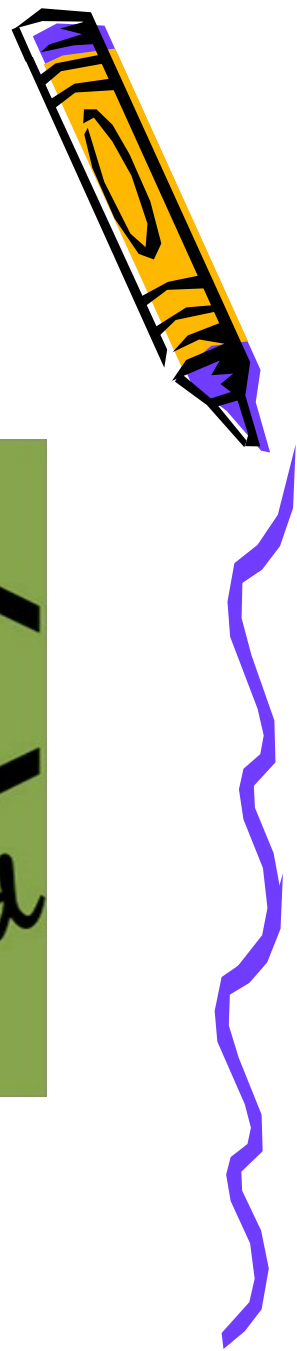


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