**Problems on NUMBERS**

Q. 1 to Q. 3

Check the divisibility for the following numbers whether these are divisible by 7 and11.

4832718

583360

47900160

Q. 4. Simplify (46 + 18 \* 6 + 4) / (12 \* 12 + 8 \*12) = ?

Q. 5. On dividing a number by 999, the quotient is 366 and the remainder is 103. The number is

Q. 6. Simplify (272 - 32)(124 + 176) / (17 \* 15 - 15)

Q. 7. How many pieces of 0.85 meteres can be cut from a rod 42.5 meteres long.

Q. 8. If a - b = 3 and a2 + b2 = 29, find the value of ab.

Q. 9. What smallest number should be added to 4456 so that the sum is completely divisible by 6 ?

Q. 10. How many 3 digit numbers are divisible by 6 in all ?

Q. 11. Find the units digit for 7^197 without using a calculator.

Q. 12. **What is the units digit of 13^35 ?**

Q. **13.** Find the units digit of 57^30

Q. 14. Find the units digit of 34^33

Q. 15. What is the units digit of (2)3(3)3(4)3(5)7(6)2(7)2

Q 16.

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| (469 + 174)2 - (469 - 174)2 | = ? |
|  |

1. \*174)

17. P,Q ,R,S are distinct integers numbered from 1 to 12. What is the possible smallest value for (P/Q)+(R/S)?

1. 1/12+2/11 b. 1/11+9/10 c.1/11+2/12 d. 1/10+1/11
2. 8+88+888+8888+………..There are 21 “8” digits in the last term of the series. Find the last three digits of the sum.
3. 458 b.648 c.658 d.968