6th – Playing with Numbers II

Divisibility Rules:

Divisible by 2: A number is divisible by 2, if its unit digit is 0 or divisible by 2 i.e., 2, 4, 6, 8

Divisible by 3: A number is divisible by 3, if the sum of its digits is divisible by 3.

Divisible by 4: A number is divisible by 4, if the last two digits are divisible by 4.

Divisible by 5: A number is divisible by 5, if the digit in its units place is 5 or zero.

Divisible by 6: A number is divisible by 2 and 3 both.

Divisible by 8: A number is divisible by 8, if the last three digits are divisible by 8.

Divisible by 9: A number is divisible by 9, if the sum of its digits is divisible by 9.

Divisible by 10: If number is divisible by 10, if the digit at unit's place is zero.

Divisible by 11: A number is divisible by 11, if the difference between the sum of its digits at odd places and the sum at even places is either exactly divisible by 0 or 11.

Exercise:

1. Using divisibility tests, determine whether 1258 is divisible by 6 or not.
2. Check whether the following numbers are divisible by 2 or not. Give reasons also:
a) 456 b) 68 c) 255 d) 207 e) 680 f) 244
3. Check whether the following numbers are divisible by 3 or not. Give reasons also:
a) 405 b) 381 c) 928 d) 207 e) 4616 f) 245
4. Check whether the following numbers are divisible by 4 or not. Give reasons also:
a) 348 b) 27616 c) 8514 d) 722 e) 1200 f) 1244
5. Check whether the following numbers are divisible by 5 or not. Give reasons also:
a) 3425 b) 750 c) 2551 d) 855 e) 394 f) 3885
6. Check whether the following numbers are divisible by 6 or not. Give reasons also:
a) 5106 b) 6833 c) 636 d) 5912 e) 680 f) 508
7. Check whether the following numbers are divisible by 9 or not. Give reasons also:
a) 7686 b) 608 c) 252 d) 883 e) 5105 f) 7999
8. Check whether the following numbers are divisible by 10 or not. Give reasons also:
a) 4560 b) 6118 c) 2550 d) 2071 e) 680 f) 2404
9. Check whether the following numbers are divisible by 11 or not. Give reasons also:
a) 10824 b) 98777 c) 70169308 d) 1000001 e) 901154 f) 624679
10. Is 3110, 2222, 5974, 4356 and 1468 divisible by 2?
11. Is 7221 divisible by 3?
12. Find the smallest digit and the greatest digit in the blank space of the number so that the number formed is divisible by 3. ____ 854
13. Is 4624 divisible by 4?
14. Is the number 73512 divisible by 8?
15. Is 3729 divisible by 11?
16. Check whether 2396 is divisible by 2 ?
17. Check whether 23973 is divisible by 3 ?
18. Check whether 23924 is divisible by 4 ?
19. Check whether 23920 is divisible by 5 ?
20. Check whether 23724 is divisible by 6 ?
21. Check whether 950720 is divisible by 8 ?
22. Check whether 24597 is divisible by 9 ?
23. Write the smallest digit and the greatest digit in the blank space of each of the following numbers so that the number formed is divisible by 3:
a) _____ 6724 b) 4765____2
24. Find the value of x when: 923*x*985 is divisible by 11.

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