Test for Divisibility of Numbers

1. Check divisibility of the following numbers by 2,4,8,5 and 10. Mark a (✓) for divisible and a (✓) for not divisible.

Number	2	4	8	5	10	3	7	6	9	11
2450										
59,628										
6,250										
9,01,674										
1,36,976										
3,10,100										
4,38,750										
10,20,531										
7,86,532										
7,01,69,800										
6,39,216										
10824										

2. Choose the correct option

a. State which of the following numbers are divisible by 8.

i) 652 ☐ ii) 4896 ☐

iii) 5086 ☐ iv) All of these ☐

b. State which of the following numbers are divisible by 11.

i) 50391 ☐ ii) 8964 ☐

iii) 103081 ☐ iv) All of these ☐

3. Test the divisibility of following numbers by 11.

a. 90, 20, 814 _____ **b.** 2241, 8217, 747_____

4. **In each of the following numbers, replace the sign '*' by the smallest digit to make them divisible by the given number:**

   a. 157 * by 2 _____

   b. 6511 * 2 by 9 _____

   c. 637 * 8 by 8 _____

   d. 215 * 173 by 11 _____

   e. 2 * 7 * by 5 _____

   f. 4129 * by 3 _____

   g. 7158 * by 6 _____

   h. 260 * 2 by 4 _____

   i. 1305 * by 10 _____

5. **Write T for true and F for false statement.**

   a. If a number is divisible by 4, it is also divisible by 2. ☐

   b. If a number is divisible by 3 and 5, it is also divisible by 15. ☐

   c. The sum of two consecutive odd numbers is always divisible by 4. ☐

   d. If a number divides the sum of two numbers, then it exactly divides them separately. ☐

6. Fill in the blanks.

a. If a number is divisible by another number then it is divisible by each of the _____of that number.

b. If two given numbers are divisible by a number, then their difference is also _____by that number.

c. If a number is divisible by two co-prime numbers then it is divisible by their _____also.

d. If a number is divisible by 18, it is divisible by _____and _____.

7. A number which is a factor of two numbers is given below. Show that this number is also a factor of the sum of the two numbers as well as a factor of the difference of the two numbers.

a. 5 is a factor of 45 and 60 _____

b. 7 is a factor of 84 and 112 _____

c. 25 is a factor of 625 and 500 _____

d. 21 is a factor of 483 and 525 _____

8. Write 'T' for true and 'F' for false statement.

a. If the ten's digit of a number is an odd number and the one's digit is 2 or 6, the number is divisible by 4. ☐

b. If a number is divisible by 4, it is also divisible by 2. ☐

c. If a number is divisible by 3, it must be divisible by 6. ☐

d. The sum of two consecutive odd numbers is always divisible by 4. ☐

e. 36 + 46 is divisible by 4. ☐

f. 4 × 5 × 6 is divisible by 6. ☐