Test for Divisibility of Numbers

A. Choose the Correct Answer:

1. A number is divisible by 5 if it ends in:

a) 0 only
b) 5 only
c) 0 or 5
d) 1 or 5

2. Which of the following numbers is divisible by 3?

a) 324
b) 205
c) 4561
d) 871

3. A number divisible by both 2 and 3 is also divisible by:

a) 5
b) 4
c) 6
d) 9

4. A number is divisible by 10 only if it ends in:

a) 5
b) 0
c) 2
d) 1

5. If a number is divisible by 9, then the sum of its digits is:

a) A multiple of 9
b) An even number
c) A prime number
d) A multiple of 3

B. Write the Missing Terms to Complete the Sentences:

1. A number is divisible by 2 if it ends in _____.
2. A number is divisible by 4 if the last _____ digits form a number divisible by 4.
3. A number divisible by 6 must be divisible by _____ and _____.
4. If the sum of the digits of a number is 18, then the number is divisible by _____.
5. A number ending with 0 is divisible by both _____ and _____.

C. Figure out the answers to these questions:

1. Write down any 3-digit number divisible by 3 and explain how you checked it using divisibility rules.
2. List all 2-digit numbers between 50 and 100 that are divisible by 6.
3. Is 143 divisible by 11? Use the divisibility rule to check.
4. Without actual division, check if 728 is divisible by 8.

5. Find the smallest 4-digit number divisible by both 3 and 5.
6. Using the divisibility test, check whether 650 is divisible by 10 and by 5. Give reasons.
7. Write a 3-digit number divisible by 9 and explain your process of checking.
8. Riya says that 705 is divisible by 3 but not by 9. Do you agree? Explain using divisibility tests.

D. Mark each sentence with a True (✓) or False (✗):

1. A number is divisible by 6 only if it is divisible by both 2 and 3. ☐
2. All numbers divisible by 5 are also divisible by 10. ☐
3. The number 999 is divisible by 9. ☐
4. 120 ends with 0, so it is divisible by 2 and 5. ☐
5. A number is divisible by 4 if the last two digits are divisible by 2. ☐

E. Challenge yourself with these questions:

1. Identify all the divisibility rules that apply to the number 840.
2. Find all numbers between 1 and 100 that are divisible by both 2 and 3 but not by 4.
3. Write the divisibility rule for 11 and check if 528 is divisible by 11.
4. Create your own 4-digit number that is divisible by 2, 3, and 6.
5. Explain how the rule of divisibility by 9 works using the number 729.