Name: _____ Date: _____

Tests for Divisibility of Numbers

Q1. Which of the following numbers is divisible by 2?

Sol. a. 1576 b. 6839

Q2. Which of the following numbers are divisible by 3?

Sol. a. 3060 b. 170034

Q3. Which of the following numbers are divisible by 4?

Sol. a. 2140 b. 21084

Tests for Divisibility of Numbers

Q1. Which of the following numbers is divisible by 2?

Sol. a. 1576 b. 6839

Rule: A number is divisible by 2 if it has any of the digits 0, 2, 4, 6 or 8 in its ones place.

a. 1576 is divisible by 2 as the last digit of the given number is 6.

b. 6839 is not divisible by 2 as the last digit of the given number is 9.

Q2. Which of the following numbers are divisible by 3?

Sol. a. 3060 b. 170034

Rule: If the sum of the digits of the given number is divisible by 3, then the given number is also divisible by 3.

a. 3060

Sum of the digits of 3060 = 3 + 0 + 6 + 0 = 9

Number '9' is divisible by 3 (9 ÷ 3 = 3). So, 3060 is also divisible by 3.

b. 170034

Sum of the digits of 170034 = 1 + 7 + 0 + 0 + 3 + 4 = 15

Number '15' is divisible by 3 (15 ÷ 3 = 5). So, the number 170034 is also divisible by 3.

Q3. Which of the following numbers are divisible by 4?

Sol. a. 2140 b. 21084

Rule: A number with 3 or more digits is divisible by 4 if the number formed by its last two digits (i.e. ones and tens) is divisible by 4.

a. 2140

The last two digit of the given number is 40.

40 ÷ 4 = 10 (40 is divisible by 4). So, 2140 is also divisible by 4.

b. 21084

The last two digit of the given number is 84.

84 ÷ 4 = 21 (84 is divisible by 4). So, the number 21084 is also divisible by 4.