

Exercise 6

In the following exercises, use the divisibility tests to determine whether each number is divisible by 2, by 3, by 5, by 6, and by 10.

39,075

Solution

39,075 is odd, so it's not divisible by 2.

The digits, 3 and 9 and 0 and 7 and 5, add to 24, which is divisible by 3, so 39,075 is divisible by 3.

The ones place is 5, which is either 5 or 0, so 39,075 is divisible by 5.

39,075 is not divisible by 2, so 39,075 is not divisible by 6.

The ones place is not 0, so 39,075 is not divisible by 10.