Exercise 4

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.

$$942$$

Solution

942 is even, so it's divisible by 2.

The digits, 9 and 4 and 2, add to 15, which is divisible by 3, so 942 is divisible by 3.

The ones place is 2, not 5 or 0, so 942 is not divisible by 5.

942 is divisible by 2 and 3, so 942 is divisible by 6.

The ones place is not 0, so 942 is not divisible by 10.