Exercise 5

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.

$$22{,}335$$

Solution

22,335 is odd, so it's not divisible by 2.

The digits, 2 and 2 and 3 and 3 and 5, add to 15, which is divisible by 3, so 22,335 is divisible by 3.

The ones place is 5, which is either 5 or 0, so 22,335 is divisible by 5.

22,335 is not divisible by 2, so 22,335 is not divisible by 6.

The ones place is not 0, so 22,335 is not divisible by 10.