

Divisibility Tests

2 Divisibility Test

An even number must be in the ones place

0, 2, 4, 6, 8

Example:

350 ✓ divisible by 2

39 ✗ NOT divisible by 2

3 Divisibility Test

Sum of the number's digits is divisible by 3

Example:

777 → 7+7+7=21 ✓ divisible by 3

530 → 5+3+0=8 ✗ NOT divisible by 3

5 Divisibility Test

0 or 5 in the ones place

Example:

55 ✓ divisible by 5

41 ✗ NOT divisible by 5

Divisibility Tests

6 Divisibility Test

An even number must be in the ones place

0, 2, 4, 6, 8

AND

Sum of the number's digits is divisible by 3

Example:

$$\underline{360} \rightarrow 3+6+0=\underline{9} \quad \checkmark \quad \text{divisible by 6}$$

$$\underline{26} \rightarrow 2+6=\underline{8} \quad \times \quad \text{NOT divisible by 6}$$

9 Divisibility Test

Sum of the number's digits is divisible by 9

Example:

$$990 \rightarrow 9+9+0=\underline{18} \quad \checkmark \quad \text{divisible by 9}$$

$$91 \rightarrow 9+1=\underline{10} \quad \times \quad \text{NOT divisible by 9}$$

Divisibility Tests

10 Divisibility Test

0 in the ones place

Example:

80 ✓ divisible by 10

95 ✗ NOT divisible by 10