Divisibility Rules

An integer is divisible

by 2

- if the last digit is even or 0

Example:

10 : 2 ✓
28 : 2

✗ 17 : 2
35 : 2

by 3

- if the sum of all digits is divisible by 3

Example:

171 : 3 ✓
1+7+1=9

✗ 163 : 3
1+6+3=10

by 4

- if the last 2 digits are 00 or divisible by 4

Example:

116 : 4 ✓
700 : 4

✗ 107 : 4
315 : 4

by 5

- if the last digit is 0 or 5

Example:

140 : 5 ✓
815 : 5

✗ 207 : 5
532 : 5

by 6

- if it is divisible by 2 and 3

Example:

102 : 6 ✓
1+0+2=3

✗ 202 : 6
2+0+2=4✗

by 8

- if the last 3 digits are 000 or divisible by 8

Example:

3120 : 8 ✓
120:8=15

✗ 4102 : 8
102:8=12,75

by 9

- if the sum of the digits is divisible by 9

Example:

594 : 9 ✓
5+9+4=18

✗ 336 : 9
3+3+6=12

by 10

- if it ends in 0

Example:

180 : 10 ✓
650 : 10

✗ 217 : 10
135 : 10