

# **Chapter 5 Number Patterns and Fractions**

## **Divisibility Rules**

# NOTES: Divisibility Rules

A number is divisible

by:

if:

2

the ones digit is even

5

the ones digit is 5 or 0

10

the ones digit is 0

3

the sum of the digits is divisible by 3

9

the sum of the digits is divisible by 9

6

if the number is divisible by both 2 & 3  
(it's ones digit is even and the sum of the  
digits is divisible by 3)

## NOTES: Divisibility Rules

A number is divisible

by:

if:

4

the last 2 digits equal multiple of 4

8

the last 3 digits equal multiple of 8

25

the last 2 digits equal multiple of 25  
(900, 25, 50, 75)

11

the sum of the 1st, 3rd, 5th...digits  
equals the sum of the 2nd, 4th, 6th...digits  
-or- if those two sums differ by 11