NUMBER RELATIONSHIPS & DIVISIBILITY

When a number is **divisible** by another number that means the first number can be evenly divided by the second number.

FACT: A multiple of a number is divisible by that number. EX: 42 � 42 is a multiple of 7 42 is divisible by 7	**FACT**: A number is divisible by its factors. EX: 100 � 25 is a factor of 100 100 is divisible by 25

Divisibility Rules

Certain rules can help you quickly figure out if a multi-digit number is divisible by a given digit.

STRATEGIES

check the ones place
- divisible by 2 – if the number is **even**
- divisible by 5 – if the number has a **0 or 5 in the ones place**
- divisible by 10 – if the number has a **0 in the ones place**

add up the digits
- divisible by 3 – if the **digits** in the number **add to a multiple of 3**
- divisible by 9 – if the **digits** in the number **add to a multiple of 9**