

Divisibility

Factor – a whole number that divides into another whole number without leaving a remainder

Ex) $8 : 1, 2, 4, 8$

1. Prime – a whole number with only 2 factors (1 and itself)

Ex) 3, 17, 43

2. Composite – a number with 3 or more factors

Ex) 4, 15, 50

3. Unique – the number 1 because it only has 1 factor

Divisibility Rules

a # is divisible by...	If...	Divisible	Not Divisible
2	...the last digit is <u>even</u>		
3	...the <u>sum</u> of the digits is divisible by <u>3</u>		
4	...the last 2 <u>digits</u> form a number divisible by 4		
5	...the last digit is <u>0</u> or <u>5</u>		
6	...the number is divisible by both <u>2</u> and <u>3</u>		
9	...the <u>sum</u> of the digits is divisible by <u>9</u>		
10	...the last digit is <u>0</u>		

Always check 3!

Numbers that look prime but aren't:

51, 57