

Lesson 4c Divisibility

Objective: Determine when 2,3,4,5,6,9, or 10 is a factor of a number.

Complete on a separate sheet of paper and turn in to the basket.

Warm-up: Divide and check your answers with multiplication.

1. $7 \overline{)27,429}$

2. $4 \overline{)345,124}$

3. $4 \overline{)682}$

4. $8 \overline{)4,534}$

Vocabulary:

1. Divisible – one number is divisible by another number if the quotient is a whole number and there is a remainder of 0.
2. Factor- the factor of a given number divides into that number with no remainder.

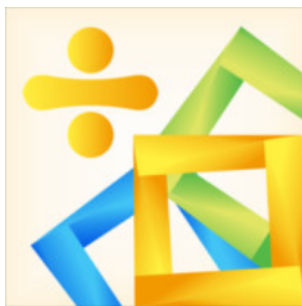
Watch PowerPoint on divisibility rules.

Divisibility Rules	
1	All numbers
2	All even numbers
3	The sum of the digits must be divisible by 3
6	The number must be divisible by both 2 and 3
9	The sum of the digits must be divisible by 9
4	The last two digits make up a number that is divisible by 4
5	The number must end with 0 or 5
10	The number must end with 0

Think about it.

1. Which divisibility rules are based on the last digit of the number?
2. Which divisibility rules are base on the last two digits of the number?
3. Which divisibility rules are based on the sum of the digits of the number?
4. Which rules do you use to determine whether a number is divisible by 6?

App on the iPad: Divisibility



Homework: Divisibility Rules (4.4)