Worksheet Number (1)

Grade & Section: Grade Seven (   ) **Unit:** 1

Student's Name: _____ **Date:** / /2025

Skill/Lesson: Divisibility Rules (2,3,4,5,6,8,9,10)

Divisibility by 2:

If the last digit of a number is even then the number is <u>divisible</u> by 2.

Divisibility by 5:

If the last digit of a number is 5 or 0 then the number is <u>divisible</u> by 5.

Divisibility by 10:

If the last digit of a number is 0 then the number is <u>divisible</u> by 10.

Divisibility by 3:

If the sum of the digits of a whole number is a multiple of 3 then the number is <u>divisible</u> by 3.

Divisibility by 9:

If the sum of the digits of a whole number is a multiple of 9 then the number is <u>divisible</u> by 9.

Divisibility by 6:

If the number is divisible by 2 and 3 at the same time then the number is <u>divisible</u> by 6.

Divisibility by 4:

Multiply the <u>tens</u> digit by 2 and add the sum of this product the <u>ones</u> digit.

If the sum is divisible by 4 then the number is divisible by 4.

Divisibility by 8:

Multiply the <u>hundreds</u> digit by 4 and the <u>tens</u> digit by 2. Add these products to one's digit.

If the sum is divisible by 8 then the number is divisible by 8.

Divisibility Rules

- John has 135 candies and wants to distribute them equally among his 5 friends. Can he do this without breaking any candies? Explain why or why not?
  Yes because 135 is divisible by 5
- A charity organization collected 360 canned goods and wants to pack them into boxes, each holding 6 cans. How many boxes are needed? Are the number of boxes needed divisible by 3?
  360 is divisible by 6 so $360 \div 6 = 60$
  Yes 60 is divisible by 3

- For a school project, there are 600 sheets of paper to be divided equally among 25 students. How many sheets will each student get? Is the number of sheets each student gets divisible by 8?

$600 \div 25 = 24$

Yes 24 is divisible by 8

- Write (√) if the number is divisible by any of the numbers below:

	2	3	4	5	6	8	9	10
25410	√	√	×	√	√	×	×	√
335622	√	√	×	×	√	×	×	×
51464	√	×	√	×	×	√	×	×
735840	√	√	√	√	√	√	√	√
985	×	×	×	√	×	√	×	×
32130	√	√	×	√	√	×	√	√
698656	√	×	√	×	×	√	×	×
1800	√	√	√	√	√	√	√	√

GOOD LUCK 😊