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Math Lab: Learn Easy Divisibility Rules (2–9)

Master quick mental math shortcuts with simple rules and step-by-step examples!

Perfect for School, Homework, & Quick Revision

Divisibility Rule for 2

2

The Rule

A number is divisible by 2 if its **last digit is even** (0, 2, 4, 6, or 8).

EXAMPLES

- **1,478 → Yes! Ends in 8 (even).**
- **3,593 → No! Ends in 3 (odd).**

Divisibility Rule for 3

3

The Rule

A number is divisible by 3 if the **sum of all its digits** is divisible by 3.

EXAMPLE: Check 381

3 + 8 + 1 = 12

Since 12 is divisible by 3 (12 ÷ 3 = 4), **381 is divisible by 3!**

Divisibility Rule for 4

4

The Rule

A number is divisible by 4 if the **number formed by its last two digits** is divisible by 4.

EXAMPLE: Check 7,324

Last two digits = 24

Since 24 is divisible by 4 (24 ÷ 4 = 6), **7,324 is divisible by 4!**

Divisibility Rule for 5

5

The Rule

A number is divisible by 5 if its **last digit is either 0 or 5**.

EXAMPLES

- **8,465 → Yes! Ends in 5.**
- **1,290 → Yes! Ends in 0.**

Divisibility Rule for 6

6

The Rule

A number is divisible by 6 if it is **divisible by both 2 AND 3**.

EXAMPLE: Check 432

1. **Rule for 2:** Ends in 2 (even) → **Pass**
2. **Rule for 3:** 4 + 3 + 2 = 9 (divisible by 3) → **Pass**

Result: 432 is divisible by 6!

Divisibility Rule for 7

7

The Rule

Double the last digit, subtract it from the remaining digits. If the result is **0 or divisible by 7**, the number is divisible by 7.

EXAMPLE: Check 203

- Last digit = **3** | Double it: 3 × 2 = **6**
- Remaining number = 20 | Subtract: 20 − 6 = **14**

Since 14 is divisible by 7, 203 is divisible by 7!

Divisibility Rule for 8

8

The Rule

A number is divisible by 8 if the **number formed by its last three digits** is divisible by 8.

EXAMPLE: Check 5,160

Last three digits = 160

Since 160 is divisible by 8 (160 ÷ 8 = 20), **5,160 is divisible by 8!**

Divisibility Rule for 9

9

The Rule

A number is divisible by 9 if the **sum of all its digits** is divisible by 9.

EXAMPLE: Check 2,871

2 + 8 + 7 + 1 = 18

Since 18 is divisible by 9 (18 ÷ 9 = 2), **2,871 is divisible by 9!**

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Mastered the Rules?

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