

**Even and odd numbers in disaster management** may seem simple, but it plays a **very practical role** in organizing logistics, planning evacuation strategies, and ensuring fairness and efficiency in response efforts.

Here are ways even and odd numbers are used, with **clear real-life examples**:

## ◆ 1. Evacuation Scheduling by House Numbers

### ◆ Math Concept: Even and Odd Numbers

- **Use:** To avoid traffic jams or panic during evacuations, **houses or vehicles** are called out in shifts based on their numbers.

#### ✓ Example:

- During a flood warning, the government schedules:
  - **Day 1:** All residents with **odd-numbered houses** evacuate (e.g., #101, 103, 105).
  - **Day 2:** All **even-numbered houses** evacuate (e.g., #102, 104, 106).

This ensures **order and safety**, especially in dense communities.

## ◆ 2. Distributing Relief Supplies Fairly

### ◆ Math Concept: Even and Odd Number Distribution

- **Use:** To ensure fairness, relief teams may serve groups based on **even or odd registration IDs** or street numbers.

#### ✓ Example:

- A food distribution center announces:
  - Morning shift: Serve families with **even-numbered ID cards**.
  - Afternoon shift: Serve **odd-numbered IDs**.

This **reduces overcrowding** and improves time management.

## ◆ 3. Alternate Day Water Access

### ◆ **Math Concept: Date-Based Number Classification**

- **Use:** After a drought or hurricane, water access may be rationed using even/odd dates.

#### ✓ **Example:**

- **Even days (2nd, 4th, 6th...):** People with **even house numbers** get water access.
- **Odd days (1st, 3rd, 5th...):** People with **odd house numbers** get access.

This helps **manage limited resources** effectively.

## ◆ **4. Vehicle Control for Emergency Routes**

### ◆ **Math Concept: License Plate Control (Even/Odd)**

- **Use:** Regulate traffic flow during emergencies using **even or odd numbered license plates**.

#### ✓ **Example:**

- During an earthquake recovery, only:
  - **Even-numbered license plates** (e.g., ending in 2, 4, 6) can travel on certain days.
  - **Odd-numbered plates** allowed on alternate days.

This ensures **emergency vehicles can pass** without obstruction.

## ◆ **5. Volunteer Grouping**

### ◆ **Math Concept: Organizing Teams by Number Type**

- **Use:** Split volunteers or workers into **even and odd teams** for shifts, duties, or zones.

#### ✓ **Example:**

- Volunteers are assigned ID numbers:
  - **Even IDs** work on food packing.
  - **Odd IDs** handle delivery.

This creates **balance and easy tracking**.

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## ✓ Summary Table:

<b>Scenario</b>	<b>Math Concept</b>	<b>Real-Life Use</b>
Evacuation plan	Even/Odd house numbers	Control and organize crowd
Food distribution	Even/Odd ID numbers	Fair supply access
Water access	Even/Odd dates & addresses	Ration scarce resources
Vehicle access	Even/Odd license plates	Clear emergency routes
Volunteer management	Even/Odd ID grouping	Balanced shift scheduling

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Even and odd numbers help bring **simple structure to complex emergency situations.**