Understanding how to **convert between decimals, fractions, and percentages** is **very useful in disaster management**. It allows responders and planners to **communicate clearly**, **analyze data**, and **make quick, accurate decisions** — especially when dealing with statistics, resources, and budgeting.

Below are **real-life disaster management examples** for each type of conversion:

🔷 1. **Changing a Decimal to a Fraction**

✅ **Example:**

During an emergency food program, each person gets **0.75 kg of rice**.

$$0.75 = \frac{75}{100} = \frac{3}{4}$$

➡️ Each person receives **¾ kg of rice** — easier to visualize or divide.

🔷 2. **Changing a Fraction to a Decimal**

✅ **Example:**

A tank is ⅝ **full** of water.

$$\frac{5}{8} = 0.625$$

➡️ The tank is **62.5% full** (decimal form helps for digital meters).

🔷 3. **Changing a Decimal to a Percentage**

✅ **Example:**

Only **0.4** of a damaged area has been cleared so far.

$$0.4 \times 100 = 40\%$$

➡️ **40%** of the area is cleared — useful in progress reports and visual graphs.

🔷 4. **Changing a Percentage to a Decimal**

✅ **Example:**

An aid agency has distributed **85%** of supplies.

$$85\% = \frac{85}{100} = 0.85$$

➡️ Can be used in formulas or calculations (e.g., 0.85 × 500 kits = 425 kits delivered).

🔷 5. **Changing a Fraction to a Percentage**

✅ **Example:**

Out of 20 villages, **15 received aid**.

$$\frac{15}{20} = 0.75 \Rightarrow 0.75 \times 100 = 75\%$$

➡️ **75% of villages** have received aid — for stakeholder updates.

🔷 6. **Changing a Percentage to a Fraction**

✅ **Example:**

A report says **60% of roads** are still blocked.

$$60\% = \frac{60}{100} = \frac{3}{5}$$

➡️ Helps when dividing responsibilities: 3 out of every 5 roads need clearing.

✅ Summary Table:

Situation	Conversion	Calculation	Result
Each person gets 0.75 kg rice	Decimal → Fraction	0.75 = ¾	¾ kg
Tank is ⅝ full	Fraction → Decimal	5 ÷ 8 = 0.625	0.625
0.4 of area cleared	Decimal → %	0.4 × 100	40%
85% of aid delivered	% → Decimal	85 ÷ 100	0.85
15 of 20 villages served	Fraction → %	15 ÷ 20 × 100	75%
60% roads blocked	% → Fraction	60 ÷ 100 = ⅗	⅗

🧠 Why These Conversions Matter in Disaster Management:

- **Percentages** help with **progress tracking**, reporting, and budgeting.
- **Fractions** help with **fair sharing** of resources.
- **Decimals** work well with **calculations** in spreadsheets or digital tools.