



## Class 9 Maths – Chapter 7



### Exercise Set 7.1 – The Mathematics of Maybe: Introduction to Probability

New Syllabus 2026–27 | Ganita Manjari Part I

**Q1. 🎯 Rank the following events on a scale from 0 (Impossible) to 1 (Certain).**

Label each event as:

- ❌ Impossible
- 📉 Less likely
- ⚖️ Equally likely (Even chance)
- 📈 More likely
- ✅ Certain

Give a reason for each ranking.

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(i) 📅<sup>July</sup><sub>17</sub> The next Monday will come after Sunday.

Rank: 1

Label: ✅ Certain

**Reason:** The days of the week follow a fixed order. Monday always comes after Sunday.

**Answer:  $P = 1$**

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(ii) ❄️ It will snow in Mumbai in July.

Rank: 0

Label: ❌ Impossible

**Reason:** Mumbai has a warm tropical climate and July is the monsoon season. Snowfall does not occur under normal conditions.

**Answer:  $P = 0$**

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(iii) 🐘 **An elephant will walk through your classroom today.**

**Rank: 0**

**Label: ❌ Impossible**

**Reason:** Under normal school conditions, an elephant cannot enter and walk through a classroom. Therefore, this event is treated as impossible.

**Answer:  $P = 0$**

Note: The textbook is asking for a practical probability ranking, so this is treated as **Impossible** in the ordinary classroom situation.

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(iv) 🙋 **You will greet at least one friend at school tomorrow.**

**Rank: Close to 1**

**Label: 🟡 More likely**

**Reason:** On a normal school day, you are very likely to meet and greet at least one friend. However, it is not absolutely certain because unexpected situations could prevent it.

**Answer:  $P \approx 0.8-0.9$**

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## 🔑 EX 7.1 ANSWER KEY

| Question                      | Rank              | Label         |
|-------------------------------|-------------------|---------------|
| (i) Monday after Sunday       | 1                 | ✅ Certain     |
| (ii) Snow in Mumbai in July   | 0                 | ❌ Impossible  |
| (iii) Elephant in classroom   | 0                 | ❌ Impossible  |
| (iv) Greet a friend at school | $\approx 0.8-0.9$ | 🟡 More likely |

★ **Remember**

**0 → Impossible ❌**

**Between 0 and 0.5 → Less likely ▼**

**0.5 → Equally likely ⚖️**

**Between 0.5 and 1 → More likely ▲**

**1 → Certain ✔️**