

Probability

Name:

Date:

INQUIRY

In Korean Yutnori, you throw 4 sticks. Each lands flat or round. What's the probability of getting all 4 flat?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Probability	$P(\text{event}) = \text{favourable} / \text{total outcomes}$.
Tree diagram	Shows all possible outcomes of multiple events.
Independent	One event doesn't affect the other.

Part A — Single Events

1. A bag: 5 red, 3 blue, 2 green. Find: $P(\text{red})$, $P(\text{not blue})$, $P(\text{red or green})$. [3 marks]

Show your working:

Part B — Expected Outcomes

2. $P(\text{red}) = 0.4$. Drawn 150 times. Expected reds? [2 marks]

Show your working:

3. In 80 Yutnori throws, you got 'do' (1 flat) 32 times. Experimental probability? Is this fair? [2 marks]

Show your working:

Part C — Tree Diagrams

4. A coin is flipped twice. Draw a tree diagram showing all outcomes. Find $P(\text{exactly one head})$. [4 marks]