

Sample Spaces and Probability



Use the matching sheet ID when checking answers.

Use the material to work through each task. Show the requested response.

1. What is the probability of landing on A?

Answer: $\frac{1}{4}$

2. What is the probability of landing on A or B?

Answer: $\frac{1}{2}$

3. What is the probability of not landing on D?

Answer: $\frac{3}{4}$

4. List the outcomes of flipping a fair coin and then spinning A or B.

Answer: HA, HB, TA, TB

5. In 40 spins, about how many A results would the model predict?

Answer: 10

6. Does probability $\frac{1}{4}$ guarantee exactly one A in four spins?

Look for:

- Distinguishes expected behavior from guaranteed outcomes.

One possible response: No. Probability describes chance; actual short runs can vary.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.