



Probability and Data

Name: _____

Date: _____

Grade: Grade 4

Part A: Fill in the Blank

Write the missing word or number on each line.

1. Flipping two coins, the chance of two tails is 1 in _____.
2. A 4-equal-sector spinner gives any one color a _____ in 4 chance.
3. If 8 of 32 trials hit blue, experimental probability is _____ out of 32.
4. Predict heads in 50 coin flips: about _____ heads.
5. Two coins, chance of at least one head is _____ out of 4.
6. Spinner with 4 equal sectors red, red, blue, green: red chance is _____ out of 4.
7. In 20 rolls of a die, a six appeared 4 times; experimental chance is _____ out of 20.
8. If chance of green is 1 in 4, in 24 spins expect about _____ greens.
9. Two coins flipped 80 times, expect about _____ flips of two tails.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Sample space of two coins	→ _____	Four outcomes HH HT TH TT
Equal-sector spinner	→ _____	Each sector equally likely
Theoretical probability	→ _____	Counted from possible outcomes
Data-based prediction	→ _____	Trials times probability fraction

Part A: Fill in the Blank

Write the missing word or number on each line.

1. Flipping two coins, the chance of two tails is 1 in 4 .
2. A 4-equal-sector spinner gives any one color a 1 in 4 chance.
3. If 8 of 32 trials hit blue, experimental probability is 8 out of 32.
4. Predict heads in 50 coin flips: about 25 heads.
5. Two coins, chance of at least one head is 3 out of 4.
6. Spinner with 4 equal sectors red, red, blue, green: red chance is 2 out of 4.
7. In 20 rolls of a die, a six appeared 4 times; experimental chance is 4 out of 20.
8. If chance of green is 1 in 4, in 24 spins expect about 6 greens.
9. Two coins flipped 80 times, expect about 20 flips of two tails.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Sample space of two coins	→ <u>Four outcomes HH HT TH TT</u>	Four outcomes HH HT TH TT
Equal-sector spinner	→ <u>Each sector equally likely</u>	Each sector equally likely
Theoretical probability	→ <u>Counted from possible outcomes</u>	Counted from possible outcomes
Data-based prediction	→ <u>Trials times probability fraction</u>	Trials times probability fraction