

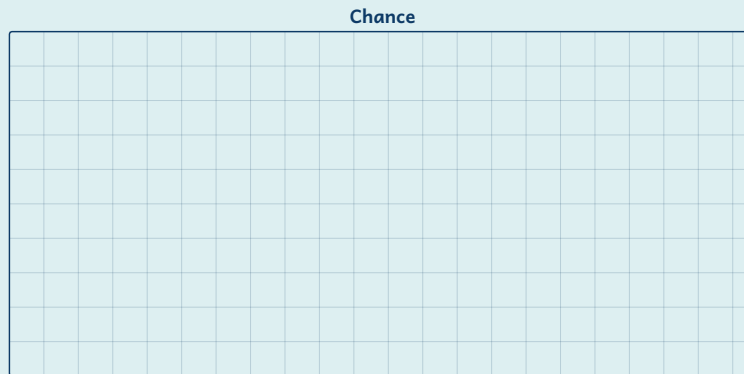
PREDICTING FAIR-DIE ROLLS

- 1 A fair die has 6 equal faces, so each number has the same chance.
- 2 Share 30 rolls evenly: $30 \div 6 = 5$. Predict about 5 of each number.
- 3 Count the tally marks: the scores are close to 5 each, so the prediction holds.

1		
2		
3		
4		
5		
6		

 WARM-UP

Use the squared space to set out and work each prediction.



1. Work 12 divided by 6 to predict each die number over 12 rolls, and write your prediction.
2. Work 20 divided by 4 to predict each spinner colour over 20 spins, and write your prediction.
3. Work 60 divided by 6 to predict each die number over 60 rolls, and write your prediction.

 PRACTICE

- 1** Rory plays a board game with one fair six-sided die and plans to roll it **12** times. Predict how many times each number should turn up.

ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. On a fair six-sided die, each number is equally likely on one roll.
- b. Ten rolls of a fair die give each number the same count.
- c. Five sixes in a row come up when a fair die is rolled ten times.
- d. Over many rolls of a fair die, every number turns up a similar number of times.

REFLECT

Did more rolls or spins bring your results closer to your prediction?