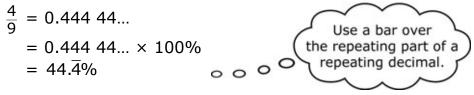


the decimal by 100 and add a percent symbol.



1. Write each fraction as a decimal and a percent.

a)
$$\frac{3}{4}$$
 b) $\frac{1}{6}$

2. Complete the following table.

Fraction	Decimal	Percent
a) $\frac{4}{5}$		
b)	0.66666	
c) $\frac{4}{11}$		
d)		33.3%

Probability

The probability of an event is a measure of the likelihood that it will occur. The probability of an impossible event is 0 or 0%. The probability of a certain event is 1 or 100%.

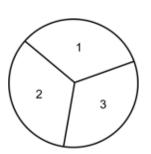
A coin is flipped. What is the probability that it lands heads up, P(H)? Write your answer as a fraction, a decimal, and a percent.

$$P(H) = \frac{\text{favourable outcomes}}{\text{possible outcomes}}$$
$$= \frac{1}{2}$$
The probability of heads is $\frac{1}{2}$, 0.5, or 50%.

Name:

- **3.** The spinner is spun once. Find the following probabilities. Write each answer as a fraction, a decimal, and a percent.
 - a) What is the probability of spinning 2, P(2)?
 - **b)** What is *P*(< 3)?
 - **c)** What is *P*(> 3)? Justify your response.

Using Tables and Tree Diagrams



(continued)

Tables and tree diagrams are common ways to organize outcomes. A coin is flipped and a spinner is spun.

- a) What is the sample space or list of all possible outcomes?
- b) How many outcomes are there?
- **c)** What is *P*(T, 3)?

a) Table

	Spinner		
Coin	1	2	3
Heads (H)	Η, 1	H, 2	Н, З
Tails (T)	T, 1	T, 2	Т, З

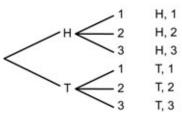
Tree Diagram

1

3

2



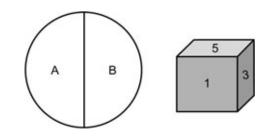


b) There are 6 favourable outcomes: (H, 1), (H, 2), (H, 3), (T, 1), (T, 2), (T, 3).

c)
$$P(T, 3) = \frac{1}{6}$$

 $P(T, 3)$ is $\frac{1}{6}$, $0.1\overline{6}$, or $16.\overline{6}\%$.

- a) Create a table to show the sample space for the spinner and the fair six-sided die.
 - **b)** List the sample space.
 - **c)** What is *P*(A, < 5)?

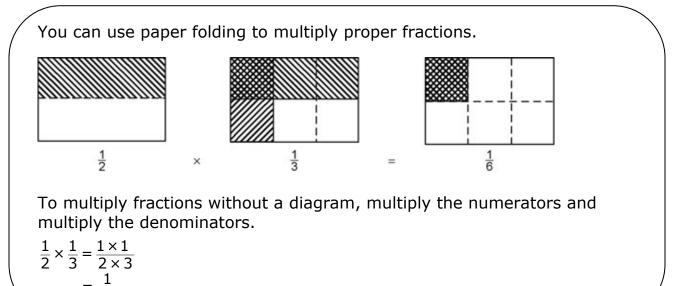






- 5. The following sample space represents all of the outcomes from flipping a coin and spinning a numbered spinner: (H, 1), (T, 1), (H, 2), (T, 2), (H, 3), (T, 3), (H, 4), (T, 4).
- **a)** Draw the spinner.
- **b)** Display the sample space in a tree diagram.
- **c)** What is *P*(H or T, < 5)? Explain your thinking.

Multiplying Fractions



6. What multiplication statement does each diagram represent?

6

a)

7. Multiply. Show your answer in lowest terms.

a)
$$\frac{3}{4} \times \frac{1}{5}$$
 b) $\frac{3}{5} \times \frac{5}{6}$ **c)** $\frac{4}{5} \times \frac{2}{3}$