

5.1 Probability

MathLinks 7, pages 158–164

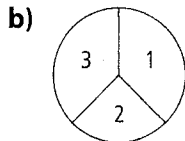
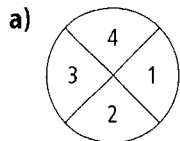
Key Ideas Review

Write the word or number from column B that matches each description in column A.

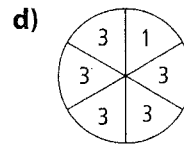
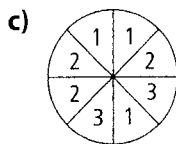
A	B
1. Probability = _____ outcomes _____ outcomes	a) 100%
2. Probability can be written as a _____, _____, or _____.	b) 0
3. The probability of a certain event is _____ or _____.	c) ratio
4. The probability of an impossible event is _____ or _____.	d) 0%
	e) fraction
	f) possible
	g) 1
	h) favourable
	i) percent
	j) chance

Practise and Apply

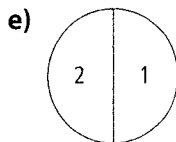
5. What is the probability of each of the following spinners landing on 3? Write your answer as a fraction, a ratio, and a percent.



Fraction: _____ Fraction: _____
Ratio: _____ Ratio: _____
Percent: _____ Percent: _____

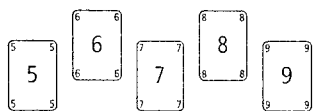


Fraction: _____ Fraction: _____
Ratio: _____ Ratio: _____
Percent: _____ Percent: _____



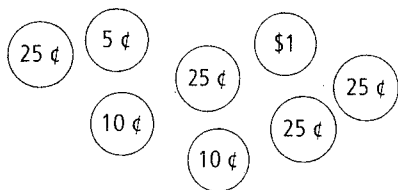
Fraction: _____
Ratio: _____
Percent: _____

6. You have the following number cards in your hand. You randomly choose a card.



- a) How many outcomes are possible?
- b) What is the probability of choosing a 7? Express your answer as a ratio, a fraction, and a percent.

7. Matt has these coins in the pocket of his jeans.



He takes one coin out of his pocket. Write each answer as a ratio, a fraction, and a percent.

- a) What is $P(\text{quarter})$?
- b) What is $P(\text{dime or quarter})$?
- c) What is the probability that the loonie is *not* picked?

8. Jules has nine miniature cars in a bag. There are three blue cars, four red cars, and two yellow cars. She chooses one car from the bag. Write each answer as a fraction, a ratio, and a percent.

- a) What is $P(\text{red car})$?

- b) What is $P(\text{blue car or red car or yellow car})$?

9. Mr. Pyed uses a 12-sided die with the numbers from 1 to 12 to pick the activity for intramurals on Fridays. Write each answer as a fraction, a ratio, and a percent.

- a) If he rolls a multiple of 3, the students will play 3-on-3 basketball. What is the probability that the class will play basketball on Friday?

- b) If he rolls a prime number, the students will play indoor baseball. What is $P(\text{baseball})$?