Textbook Unit 7 Lesson 7 Answers

- 1. a) Possible Outcomes: Win, Lose, Spin Again
 - b) Possible Outcomes: Red, Black, Blue
 - c) Possible Outcomes: 1, 2, 3
- 2. a) 8 times

b) Heads $\frac{12}{20}$ Tails $\frac{8}{20}$

c) The probability of a head or tail is $\frac{1}{2}$ so in theory you should have 10 heads and 10 tails.

d) Dave should get in theory, 50 heads and 50 tails.

3. a) 24 spins

b) Blue $\frac{17}{24}$ Orange $\frac{7}{24}$

c) They are very close. In theory Avril should land on blue 18 times and land on orange 6 times.

- 4. a) Red $\frac{35}{50}$
 - b) It should occur about 70 times.
 - c) Red $\frac{58}{100}$

d) Nina didn't do anything wrong. Sometimes there are differences between experimental results and theoretical probabilities.

- 5. a) Possible Outcomes: 1, 2, 3, 4, 5, 6 b) i) $\frac{1}{6}$ ii) $\frac{3}{6}$ or $\frac{1}{2}$ iii) $\frac{2}{6}$ or $\frac{1}{3}$ iv) $\frac{2}{6}$ or $\frac{1}{3}$
- 6. a) It is a fair game. The sections are the same size and there are 5 of each.

b)
$$\frac{5}{10}$$
 or $\frac{1}{2}$

d) You would expect to get an odd number 50 times and an even number 50 times.