

Answers for Lesson 10-4, pp. 488–489 Exercises

1. If the outcome of the first event affects the outcome of the second event, the events are dependent. If the outcome of the first event has no effect on the outcome of the second event, the events are independent.
2. Independent; the outcome of the coin toss will have no effect on the roll.
3. Dependent; after the first card is chosen, the remaining collection of cards has changed.
4. $\frac{3}{10}$ 5. $\frac{1}{36}$ 6. $\frac{1}{676}$ 7. $\frac{1}{676}$
8. $\frac{5}{676}$ 9. $\frac{25}{676}$ 10. $\frac{3}{95}$ 11. $\frac{9}{190}$
12. $\frac{2}{95}$ 13. $\frac{3}{38}$
14. Independent; the outcome of the second draw is not dependent on the first draw.
15. Independent; the first spin does not affect the second spin.
16. Dependent; the second selection is affected by the first selection.
17. $\frac{3}{10}$ 18. $\frac{5}{96}$ 19. $\frac{5}{32}$
20. $\frac{1}{16}$ 21. 0 22. $\frac{5}{32}$
23. $\frac{1}{36}$
24. For independent events, the outcome of the first event does not affect the outcome of the second event. For dependent events, the outcome of the second event is affected by the outcome of the first event.
25. $\frac{2}{5}$ 26. B 27. J
28.

0	9
1	0 0 1 3 4 4 4 4 6 7 9
2	0 2 5

Key: 1 | 0 means 10

Answers for Lesson 10-4, pp. 488–489 Exercises (cont.)

29.
$$\begin{array}{r|l} 5 & 0\ 2\ 5\ 5\ 6\ 7\ 7 \\ 6 & 1\ 1\ 4\ 5\ 8 \\ 7 & 0 \end{array}$$

Key: 5 | 0 means 5.0

30.
$$\begin{array}{r|l} 10 & 0\ 0\ 0\ 2\ 5 \\ 11 & \\ 12 & 2\ 5\ 8\ 9 \\ 13 & 3\ 6 \\ 14 & 4 \\ 15 & 1\ 6 \end{array}$$

Key: 12 | 2 means 122