

## Answers for Lesson 5-8, pp. 248–250 Exercises

- Answers may vary. Sample: An outcome is any of the possible results that can occur. An event is the collection of possible outcomes in an experiment. An outcome can be an event if there is only one possible result of the experiment.
- If the jar has only red, white, and blue marbles, then you are certain to pick a red, white, or blue marble, so the probability is 100% or  $P = 1$ .

3.  $\frac{1}{3}$

4.  $\frac{1}{2}$

5.  $\frac{1}{6}$

6.  $\frac{1}{8}$

7.  $\frac{1}{8}$

8.  $\frac{1}{2}$

9.  $\frac{3}{8}$

10. 0

11. 1

12. 83%

13. 10%

14. 78%

15.  $\frac{3}{16}$

16.  $\frac{1}{2}$

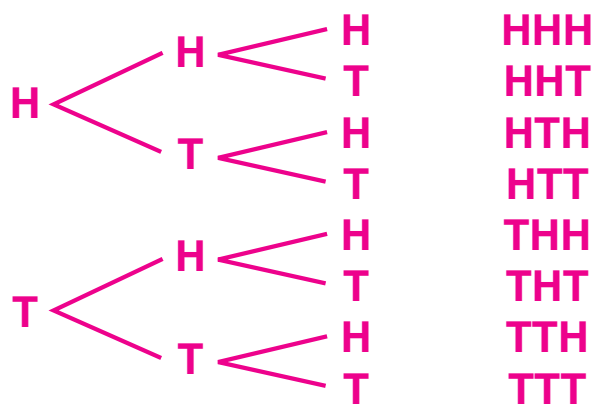
17.  $\frac{1}{4}$

18.  $\frac{1}{8}$

19.  $\frac{1}{2}$

20.  $\frac{1}{4}$

21. Toss 1    Toss 2    Toss 3    Outcome



22.  $\frac{1}{8}$

23.  $\frac{3}{8}$

24.  $\frac{3}{8}$

25.  $\frac{1}{8}$

26. 110 packages

27.  $\frac{1}{5}$

28. 51.3%

29.  $\frac{1}{5}$  or 20%

30.  $\frac{2}{5}$  or 40%

31.  $\frac{2}{9}$  or about 22.2%

32. Answers may vary. Sample: No; probability cannot be greater than 1.

33.  $\frac{1}{12}$

34. B

35. H

36. D

37. 30 lb : 1 lb

38.  $\frac{3,520 \text{ ft}}{1 \text{ ft}}$

39.  $\frac{32,400 \text{ s}}{127 \text{ s}}$