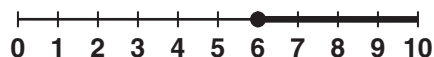


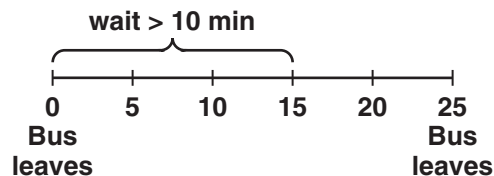
## Answers for Lesson 10-8, pp. 584–587 Exercises

1.  $\frac{1}{2}$                       2.  $\frac{1}{10}$                       3.  $\frac{3}{5}$   
 4.  $\frac{2}{5}$                       5. 1                      6.  $\frac{3}{10}$

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



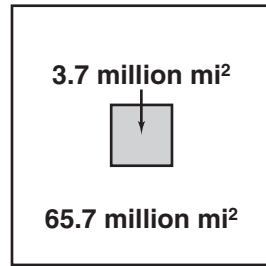
8.  $\frac{1}{2}$  or 50%                      9.  $\frac{4}{15}$  or about 27%  
 10.  $\frac{4}{7}$  or about 57%                      11.  $\frac{1}{3}$  or about 33%  
 12.  $\frac{7}{15}$  or about 47%                      13.  $\frac{5}{8}$  or 62.5%  
 14.  $\frac{1}{6}$                       15.  $\frac{1}{4}$  or 25%  
 16. 25%                      17.  $\frac{2}{5}$  or 40%  
 18.  $\frac{2}{3}$  or about 67%                      19.  $\frac{\pi}{2 + \pi}$  or about 61%  
 20.  $\frac{4 - \pi}{4}$  or about 21%                      21. 4%  
 22. 6                      23.  $\frac{\pi}{4}$   
 24.  $\frac{\pi}{4}$                       25.  $\frac{\pi}{4}$   
 26.  $\frac{10\pi}{200}$  or about 16%  
 27. a. 14 prizes  
       b. \$110  
 28. a.  $\frac{3}{5}$  or 60%



29. 36 s

**Answers for Lesson 10-8, pp. 584–587 Exercises (cont.)**

30. about 5.6%



31. a.

If it starts after 45 min, you cannot erase 15 min of a 60-min tape.

b.

$\frac{7}{45}$  or about 16%

32.  $\frac{3}{5}$

33.  $\frac{3}{10}$

34.  $\frac{9}{20}$

35. 0

36.  $\frac{1}{40}$

37. 1

38.  $\frac{3}{10}$

39.  $\frac{\sqrt{10} - \sqrt{2}}{10\pi} \approx 0.06$

40. about 46%

41. about 36%

42. about 59%

43. about 46%

44. a. yes

b. no

c.  $\frac{2}{3}$

45. a–b. Check students' work.

46. a. 45 cm

b. 63 cm

c. 71 cm

d. 77 cm

e. 89 cm

f. 100 cm

47.  $\frac{24}{49} \approx 49\%$ ; the probability is the same.