

Answers:

1. a. T, b. T, c. F, d. T e. F f. T g. F  
2. a. {a,c,d,e,f,g} b. {f} c. {f} d. 16 e. 15  
3. a. 52 b. 7 c. 9 d. 19 e. 38 f. 10  
4. HS, HM, HT, HW, HH, HF, HS, TS, TM, TT, TW, TH, TF, TS

5. a.  $\frac{1}{221}$  b.  $\frac{4}{13}$  c.  $\frac{7}{13}$  d.  $\frac{8}{13}$  e.  $\frac{3}{26}$  f.  $\frac{1}{52}$

6. 5:2

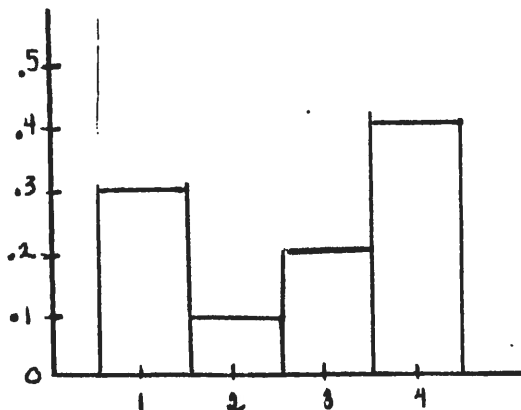
7.  $\frac{7}{9}$

8. a. one b. 1 c. 0 d.  $1 - P(E)$  e. 0 and 1 inclusive

9. a. .86 b. .64 c. .86 d. .55 e. .36

10.  $\frac{1}{10}$

11. a. .32 b.



12. 36

13. 630

14. 6,760,000

15. 1,320

16. a. 24 b. .72

17. 210

18. a. .024 b. .182

19. .2637

20. .2857

21. .90

22. .39

23. a. .1764 b. .3141 c. .438

24. .5132

25. a. .185 b. .9993

26. .2225

27. -\$.25

28. a. 65.1   b. 70.5   c. 71   d. 66   e. 20.48  
 29. a. 8.42   b. 8.5   c. 7   d. 3   e. 1.26  
 30. 54.07  
 31. .1093  
 32. -.61  
 33. a. .1587   b. .5925   c. .7734   d. 11.29 cm.

34. 
$$\begin{bmatrix} -1 & 4 \\ -1 & -6 \\ 2 & 2 \end{bmatrix}$$

35. 
$$\begin{bmatrix} -18 & 21 \\ 9 & 10 \end{bmatrix}$$

36. b.

37. b

38. a.

	City	Suburbs
City	$\begin{bmatrix} .93 & .07 \end{bmatrix}$	
Suburbs	$\begin{bmatrix} .01 & .99 \end{bmatrix}$	

b.

City	Suburbs
$\begin{bmatrix} .85 & .15 \end{bmatrix}$	

c. 79.2% in the city, 20.8% in the suburbs

39. a. 54%                      b. 62.4%

40. a. B pays A 2                      b. A pays B 5

41. 
$$\begin{bmatrix} -6 & -4 \\ 7 & -8 \end{bmatrix}$$

42. (2,3) is the saddle point. The value of the game is -1.

43. a. buy stock              b. buy money market certificates  
 c. money market certificates              d. \$11,025