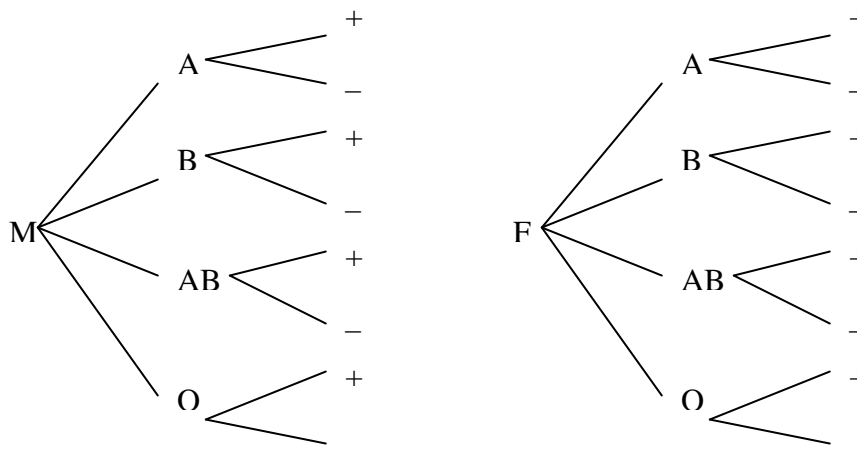


In each case, a reasonable exact answer is given unless the problem specifically requests a rounded percent. Corresponding percents, fractions or decimals are also acceptable.

1. $\frac{1}{2}$
2. $\frac{1}{16}$
3. (a) $\frac{7}{10}$ (b) $\frac{3}{10}$
4. Approximately 91%
5. (a) $\frac{7}{24}$ (b) $\frac{1}{16}$
6. (a) 39,800 (b) 5,040 (c) 210
7. (a) 560 (b) $\frac{80}{429} \approx 19\%$
8. 676,000
9. (a) 10 (b) 160
10. (a) $\frac{3}{8}$ (b) 250
11. (a) 15 (b) 20
12. (a) 30 (b) 360
13. (a) 8 (b) 36 (c) 45
14. $\frac{33}{108,290} \approx 0.03\%$
15. (a) 500 (b) 10
16. (a) 3,024 (b) 126
17. (a) 210 (b) 2,730
18. (a) $\frac{5}{6}$ (b) 75% (c) 0.35 (d) 0.6
19. (a) 0 (b) mutually exclusive
20. 85%
- 21.

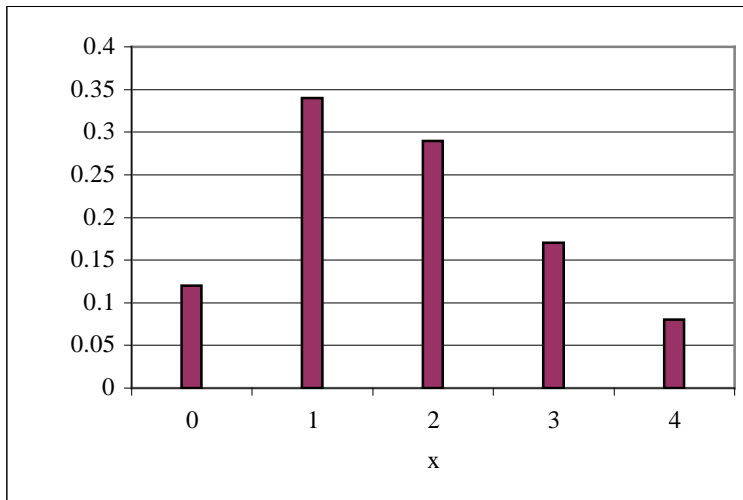


22. (a) 59,280 (b) 64,000

23. 1,365

24. (a) Yes; $0 \leq P(X) \leq 1$ for every X value, and $\sum P(X) = 1$

(b)



(c) Mean 1.8; Variance 1.2; Standard deviation 1.1

25. $\frac{21}{26} \approx 81\%$

26. 0.55 or 55%

27. 0.9744 or 97.44%

28. Mean 1.8 radios/household; Standard deviation 1.0 radios/household

29. – \$1.75/ticket

30. 3.1%

Do your best! Live and learn!