

RESPOSTAS DOS EXERCÍCIOS - Probabilidade

1. a) $\frac{1}{6}$ b) $\frac{1}{3}$ c) $\frac{1}{3}$ d) $\frac{2}{3}$ e) $\frac{1}{2}$

f) $\frac{1}{2}$ g) $\frac{1}{2}$ h) $\frac{1}{6}$ i) 0

2. a) $\frac{1}{13}$ b) $\frac{12}{13}$

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

4. D

5. a) $\frac{1}{6}$ b) $\frac{5}{6}$ c) $\frac{1}{9}$ d) $\frac{3}{4}$

e) $\frac{1}{2}$ f) $\frac{35}{36}$ g) 0 h) $\frac{1}{4}$

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

7. 29%

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

9. D

10. 1 ou 100%

11. D

12. 1,445%

13. $\frac{1}{54}$

14. $x = \frac{1}{2}$

15. a) $\frac{40}{100} = 40\%$ b) $\frac{30}{100} = 30\%$

c) $\frac{10}{100} = 10\%$ d) $\frac{60}{100} = 60\%$

16. A

17. $\frac{8}{1365}$

18. 0,9

19. $\frac{3}{25}$



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

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

22. a) $\frac{4}{5}$ b) $\frac{1}{2}$ c) $\frac{9}{10}$

23. a) $\frac{2}{3}$ b) $\frac{1}{3}$

24. B = $\frac{1}{3}$ e C = $\frac{1}{6}$

25. a) $\frac{4}{7}$ b) $\frac{2}{7}$ c) $\frac{1}{7}$

26. p = $\frac{1}{8}$

27. P(cara) = $\frac{6}{7} \cong 0,8571$

28. P(A) = $\frac{3}{5}$, P(B) = $\frac{3}{10}$ e P(C) = $\frac{1}{10}$

29. a) P(impar) = $\frac{1}{4}$ e P(par) = $\frac{3}{4}$

b) $\frac{5}{12}$ c) $\frac{5}{6}$

30. P(A) = $\frac{4}{9}$, P(B) = $\frac{4}{9}$ e P(C) = $\frac{1}{9}$

31. a) $\frac{3}{14}$ b) $\frac{2}{7}$ c) $\frac{3}{8}$ d) $\frac{1}{8}$

32. a) $\frac{4}{35}$ b) $\frac{4}{35}$ c) $\frac{4}{15}$ d) $\frac{48}{210}$

33. a) $\frac{11}{28}$ b) $\frac{71}{140}$ c) $\frac{1}{10}$

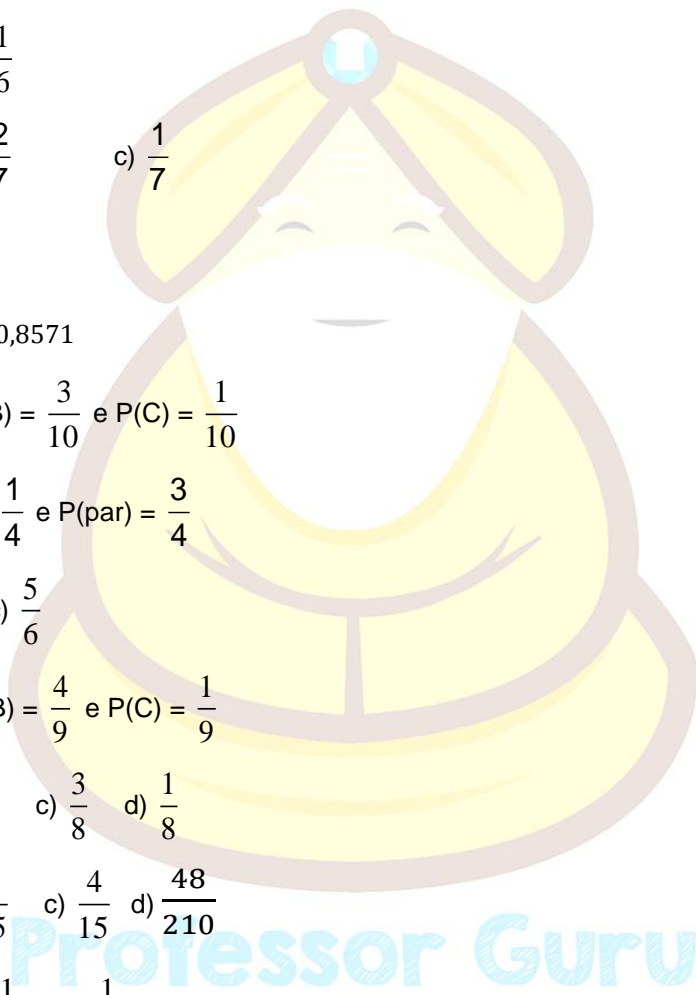
34. a) $\frac{53}{60}$ b) $\frac{7}{60}$

35. C

36. D

37. a) 0,20 b) 0,70

38. a) $\frac{1}{24}$ b) $\frac{3}{4}$



39. a) $\frac{1}{20}$ b) $\frac{9}{40}$ c) $\frac{31}{40}$

40. a) $\frac{3}{10}$ b) $\frac{2}{5}$

41. a) $\frac{1}{5}$ b) $\frac{11}{15}$ c) $\frac{4}{15}$ d) $\frac{2}{15}$ e) $\frac{2}{5}$

42. a) $\frac{1}{1024}$ b) $\frac{1}{1024}$ c) 0

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

44. $\frac{4}{11}$

45. a) $\frac{4}{9}$ b) $\frac{4}{9}$ c) $\frac{1}{3}$

46. 0,352

47. 0,56

48. E

49. E

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

51. $\frac{5}{9}$

52. $\frac{5}{12}$

53. $\frac{29}{35}$

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

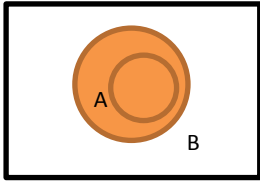
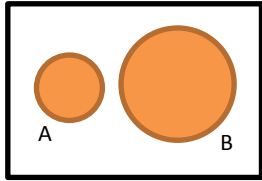
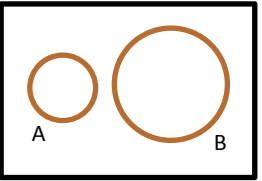
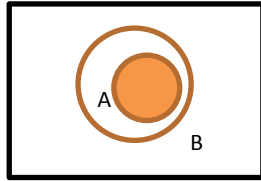
55. a) independentes

b) dependentes

56. a) $1 - \left(\frac{999}{1000}\right)^{30} \cong 0,0296$

b) $n > \frac{\ln 0,997}{\ln 0,999} \cong 3,003$. Logo: 4 dias.

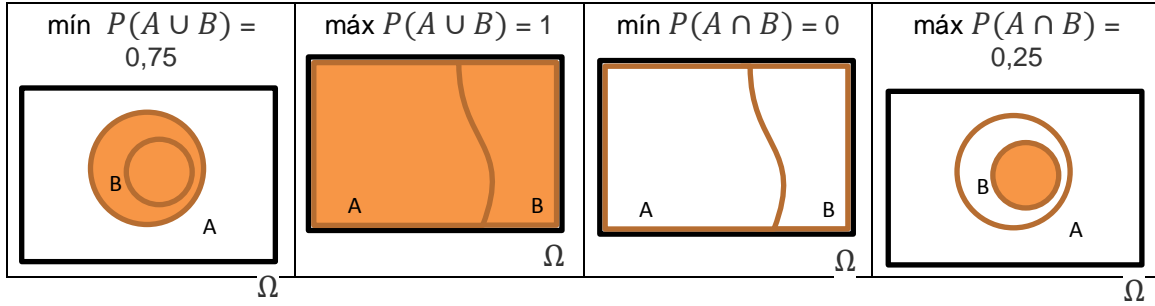
57.

| mín $P(A \cup B) = 0,5$ | máx $P(A \cup B) = 0,8$ | mín $P(A \cap B) = 0$ | máx $P(A \cap B) = 0,3$ |
|---|---|--|---|
|  |  |  |  |
| Ω | Ω | Ω | Ω |

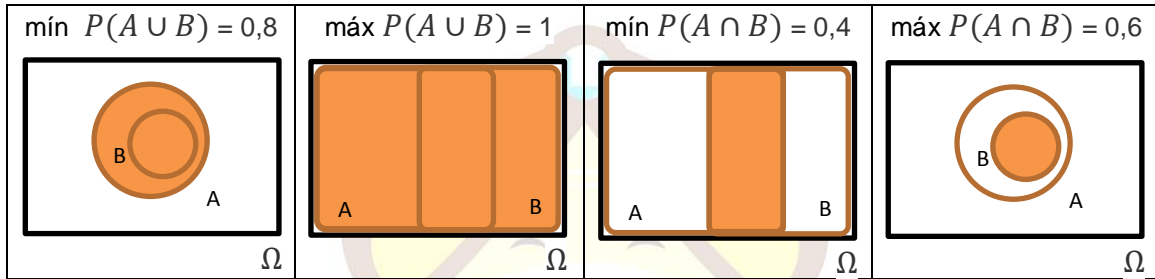


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58.



59.



- 60. E
- 61. C
- 62. B
- 63. B
- 64. C
- 65. E
- 66. A
- 67. D
- 68. D

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