

Below are the correct answers to the problems in this set; for complete solutions see the course website, www.math.uiuc.edu/~hildebr/370. The source of each problem is indicated in parentheses; for example, “#22/may01” means that the problem occurred as Problem 22 on the May 2001 Actuarial Exam 1/P.

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| 1. [4-1, #13/1999] | B | 18. [4-51, #25/nov01] | E: 8/9 |
| 2. [4-2, #27/may00] | B: 0.58 | 19. [4-53, #5/may01] | C: 0.488 |
| 3. [4-3, #22/may00] | D: 0.99 | 20. [4-54, #34/nov01] | D: 7/8 |
| 4. [4-4, #4/nov00] | C: 0.20 | 21. [4-55, #23/may00] | A: 0.17 |
| 5. [4-5, #4/1999] | D | 22. [4-56, #28/nov01] | B: 0.19 |
| 6. [4-6, #22/may01] | C | 23. [4-102, #6/may03] | A: 0.04 |
| 7. [4-7, #32/may01] | E: 200 | 24. [4-103, #16/may03] | B: 0.41 |
| 8. [4-8, #7/may01] | B: 0 | 25. [4-104, #20/may03] | C: 0.30 |
| 9. [4-9, #24/may01] | E | 26. [4-106, #10/may00] | C: 0.400 |
| 10. [4-10, #10/may03] | E | 27. [4-107, #36/nov00] | D: 0.71 |
| 11. [4-11, #24/may03] | C: 5.8 | 28. [4-108, #14/may01] | A: 1/12 |
| 12. [4-12, #28/may03] | C: 1/4 | 29. [4-109, #27/may01] | A: 2025 |
| 13. [4-13, #31/1999] | A: 1/4 | 30. [4-110, #35/may00] | E: 10,560 |
| 14. [4-14, #5/may00] | C | 31. [4-111, #37/1999] | E: 7/9 |
| 15. [4-15, #11/may00] | D: 0.417 | 32. [4-112, #35/1999] | C: 66.7 |
| 16. [4-16, #20/nov00] | B | 33. [4-115, #20/may00] | C: 6 |
| 17. [4-17, #40/nov00] | D: 0.83 | 34. [4-113, #26/may01] | B |