

Applications of Mathematics 10

Sample Exam A

(Updated November 2006)

Provincial Examination — Answer Key

Cognitive Processes

K = Knowledge
U = Understanding
H = Higher Mental Processes

Weightings

13.3%
 73.3%
 13.3%

Question Types

52 = Multiple Choice (MC)
8 = Numerical Response (NR)

Topics

1. Problem Solving
2. Number
3. Patterns and Relations
4. Shape and Space
5. Statistics and Probability
(Chance and Uncertainty)

Prescribed Learning Outcomes (PLOs)

A
 B
 C
 D
 E

Weightings

Integrated Throughout
 25%
 25%
 40%
 10%

| Question Number | Keyed Response | Cognitive Process | Mark | Topic | PLO | Question Type |
|-----------------|----------------|-------------------|------|-------|------------|---------------|
| 1. | C | U | 1 | 2 | B1 | MC |
| 2. | B | U | 1 | 2 | B1 | MC |
| 3. | A | U | 1 | 2 | B7 | MC |
| 4. | A | U | 1 | 2 | B2, B6 | MC |
| 5. | 40.67 | U | 1 | 2 | B1 | NR |
| 6. | C | K | 1 | 2 | B6 | MC |
| 7. | C | U | 1 | 2 | B2 | MC |
| 8. | C | U | 1 | 2 | B1 | MC |
| 9. | D | K | 1 | 2 | B1 | MC |
| 10. | C | U | 1 | 2 | B7 | MC |
| 11. | 479.72 | U | 1 | 2 | B7 | NR |
| 12. | D | H | 1 | 2 | B2, B6 | MC |
| 13. | D | U | 1 | 2 | B3, B4, D8 | MC |
| 14. | B | U | 1 | 2 | B4 | MC |
| 15. | A | H | 1 | 2 | B4 | MC |
| 16. | C | K | 1 | 3 | C1 | MC |
| 17. | C | U | 1 | 3 | C2 | MC |
| 18. | B | U | 1 | 3 | C4 | MC |
| 19. | 24.25 | U | 1 | 3 | C8 | NR |
| 20. | C | H | 1 | 3 | C8 | MC |
| 21. | A | K | 1 | 3 | C6 | MC |
| 22. | C | U | 1 | 3 | C7 | MC |
| 23. | B | U | 1 | 3 | C7 | MC |
| 24. | C | H | 1 | 3 | C4 | MC |
| 25. | D | U | 1 | 3 | C7, C5 | MC |
| 26. | B | U | 1 | 3 | C5 | MC |
| 27. | 59 | U | 1 | 3 | C5 | NR |
| 28. | A | U | 1 | 3 | C3 | MC |
| 29. | A | U | 1 | 3 | C7 | MC |
| 30. | D | U | 1 | 3 | C1 | MC |

| Question Number | Keyed Response | Cognitive Process | Mark | Topic | PLO | Question Type |
|-----------------|----------------|-------------------|------|-------|----------|---------------|
| 31. | B | U | 1 | 4 | D5 | MC |
| 32. | A | U | 1 | 4 | D5 | MC |
| 33. | A | H | 1 | 4 | D3 | MC |
| 34. | 3.71 | U | 1 | 4 | D3 | NR |
| 35. | C | K | 1 | 4 | D1 | MC |
| 36. | D | U | 1 | 4 | D4 | MC |
| 37. | C | U | 1 | 4 | D2 | MC |
| 38. | B | H | 1 | 4 | D1 | MC |
| 39. | A | U | 1 | 4 | D5 | MC |
| 40. | 163.7 | U | 1 | 4 | D5 | NR |
| 41. | D | U | 1 | 4 | D7 | MC |
| 42. | B | U | 1 | 4 | D8 | MC |
| 43. | B | K | 1 | 4 | D6 | MC |
| 44. | C | U | 1 | 4 | D8 | MC |
| 45. | B | U | 1 | 4 | D2 | MC |
| 46. | A | K | 1 | 5 | E1 | MC |
| 47. | B | U | 1 | 5 | E1 | MC |
| 48. | -0.08 | U | 1 | 5 | E4 | NR |
| 49. | D | H | 1 | 5 | E2 | MC |
| 50. | D | U | 1 | 5 | E3 | MC |
| 51. | C | U | 1 | 5 | E5 | MC |
| 52. | C | U | 1 | 4 | D13 | MC |
| 53. | B | U | 1 | 4 | D11 | MC |
| 54. | B | U | 1 | 4 | D10 | MC |
| 55. | A | U | 1 | 4 | D12 | MC |
| 56. | D | U | 1 | 4 | D14 | MC |
| 57. | 20.40 | U | 1 | 4 | D10, D11 | NR |
| 58. | C | K | 1 | 4 | D14 | MC |
| 59. | A | U | 1 | 4 | D10, D11 | MC |
| 60. | D | H | 1 | 4 | D13 | MC |