



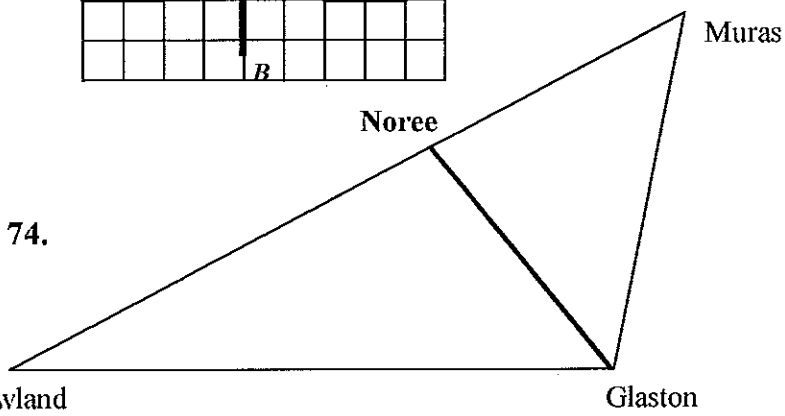
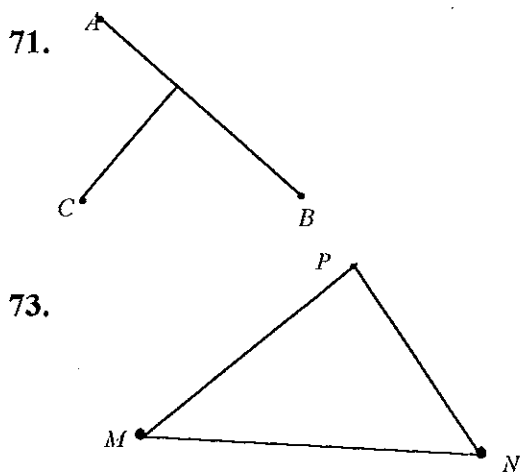
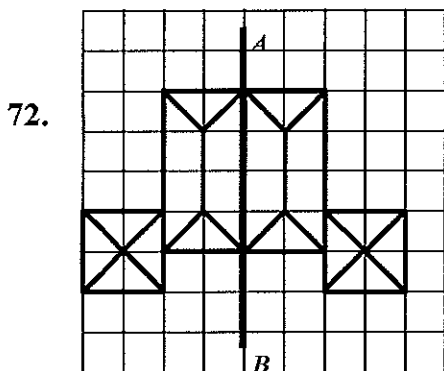
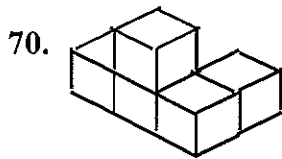
PRACTICE PAPER 2 SCHOOL CERTIFICATE TEST SOLUTIONS

Section 1

- | | | | | |
|------|-------|------------------|----------|------------|
| 1. C | 6. A | 11. C | 16. 7°C | 21. \$1.64 |
| 2. D | 7. B | 12. D | 17. 24 | 22. 91 |
| 3. D | 8. B | 13. \$14 | 18. \$55 | 23. A,B |
| 4. B | 9. C | 14. 9 minutes | 19. 15% | 24. B,D |
| 5. D | 10. B | 15. 8 or 9 or 10 | 20. 27 | 25. A |

Section 2

- | | | | | |
|-------|-------|-------------|-------------------------|------------------------|
| 26. D | 35. A | 44. B | 53. 20 | 62. 3.5 m ³ |
| 27. B | 36. A | 45. C | 54. 9 | 63. 8 450 000 |
| 28. A | 37. B | 46. D | 55. \$727 | 64. 40 m |
| 29. B | 38. A | 47. B | 56. 135 m | 65. B,C |
| 30. C | 39. A | 48. C | 57. 6°C | 66. A,D |
| 31. C | 40. A | 49. C | 58. 100° | 67. B,C,D |
| 32. C | 41. D | 50. A | 59. 71 | 68. A,D |
| 33. B | 42. B | 51. 90% | 60. \$85 | 69. C,D |
| 34. C | 43. C | 52. 37.75°C | 61. 34.8 m ² | |



75. $85\text{km} + 50\text{km} + 105\text{km} = 240\text{ km}$

Section 2 - Part B

Question 76

- (a) $2 + 1 + 2 + 3 + 2 + 3 + 2 = 15$ games
 (b) The modes were 3 and 5 goals
 (c) Average = $\frac{49}{15} = 3.3$ goals per game
 (d) $\frac{5}{15} \times \frac{100}{1} = 33\frac{1}{3}\%$
 (e) $\frac{3}{15} \times 12\text{cm} = 2.4$ cm

Question 77

- (a) 16
 (b) $5 \times 4 + 4 = 24$ dots
 (c)

<i>s</i>	2	3	4	5
<i>d</i>	4	8	12	16

 (d) $4n - 4$
 (e) $4n - 4 = 364$
 $\therefore 4n = 368 \therefore n = 92$ (dots)

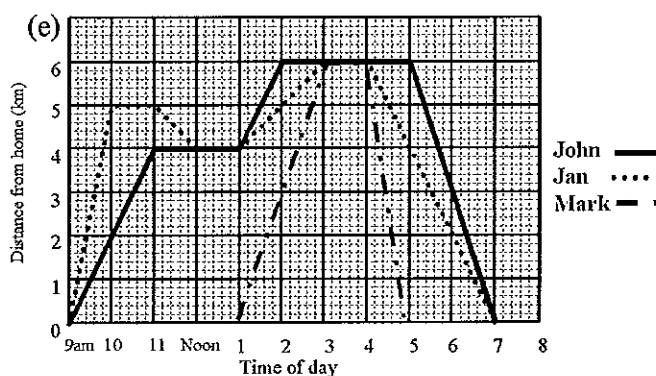
i.e. The side length is 91 units

Question 78

- (a) $50\text{g} \times 2 = 100\text{g}$
 (b) 7.8%
 (c) 11.7 grams
 (d) The packet contains 1260 calories
 \therefore it will take Cathy $1260 \div 13$
 $= 97$ minutes (to nearest minute)
 (e) $50 \div 190 \times 230 = 61$ grams (to the nearest gram)

Question 79

- (a) Average Speed = $\frac{40}{2} = 20$ km/h
 (b) Jan travelled for 1 hour before stopping for an hour. She then headed back towards home and met up with John.
 (c) At 3pm for 1 hour
 (d) 5 pm to 7 pm or 1 pm to 2 pm (10 am to 11 am is also true)



Question 80

- (a) $x^2 = 25^2 - 18^2$
 $\therefore x = 17.35$ m
 (b) (A) 548 m^2
 (c) Semi-circle = 548 m^2
 Trapezium = $0.5 \times 18 \times (20 + 37.35) = 516.15 \text{ m}^2$
Total Area = 1064 m^2 (to the nearest m^2)
 (d) $V = 1064 \times 60$
 $V = 63\,840 \text{ m}^3$
 (e) $63\,840 \div 15 = 4256$ horse power