

Eastern Area Mathematical Challenge 2008

Round 1 Answers (30 marks)

15 starters for 30

- | | |
|---|---|
| 1. 4.8% (2 marks) | 2. $\frac{3}{20}$ (2 marks) |
| 3. 0.3125 (2 marks) | 4. £900 (2 marks) |
| 5. $x = -3\frac{2}{3}$ (2 marks) | 6. $\frac{11}{16}$ (2 marks) |
| 7. $(x + 13)(x - 11)$ (1 mark for each correct factor) | |
| 8. 83 kg (2 marks) | 9. 792 (2 marks) |
| 10. 168 (2 marks) | 11. $\frac{5}{12}$ or $\frac{15}{36}$ (2 marks) |
| 12. 17×19 (1 mark for each correct factor) | 13. 10:48 (2 marks) |
| 14. $t = r - \frac{q}{p}$ (2 marks for correct answer, 1 mark if $\frac{q}{p}$ appears) | |
| 15. 12 (2 marks) | |

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Round 3 Answers (20 marks)

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|---|-------------------------|
| 1. 1111111 (2 marks) | 2. 17 (2 marks) |
| 3. Complete the following number sequence: 11, 110, 1001, 1100, 1111 , 10010 , (1 mark each) | |
| 4. 1111 (2 marks) | 5. 111 (2 marks) |
| 6. 10000101 (2 marks) | 7. 1111101 (2 marks) |
| 8. 0.1 (2 marks) | 9. $x = 1001$ (2 marks) |
| | 10. 210 (2 marks) |

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Round 2 Answers (20 marks)

4 marks for each correct answers.

1. D 2. E 3. B 4. A 5. D

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Round 5 Answers (30 marks)

5 marks for each correct answers.

1. C 2. B 3. A 4. D 5. E 6. E

