Solutions Year 10

Mathematics Course

Yearly Exam 2012

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| --- | --- | --- | --- |
| **Section 1 Non-Calculator** | |  |  |
|  |  |  |
|  |  |
|  |  |  |  |
|  | 78 500 000 = |  |  |
|  | Pay = |  | Metal as Anything  Thrash and Trash  Metal as Anything  Kings of the Iron Age  Deaf Metal  Chrome Attack |
|  | = 5 ÷ 11= |  | Ferrica |
|  | 12 : 5 = 240 : *x*  *x* = 5 × 20 = ***100 bikes*** |  | Mean = |
|  | Original price = $ 240  Discount = 240 × 0.4 = 96.00  Selling price = 240 – 96  = ***$144.00*** |  | IQR = 5 – 2 = 3 |
|  |  |  | 3:20 + 2:45 + 0 :27 =5:92 = 6:32 pm |
|  | *Step 1* 5 matches  *Step 2* 12 matches (+7)  *Step 3* 19 matches (+7)  *Step 4* 26 matches(+7)  *Step 5* 33 matches (+7)  ***Step 6 40 matches***  (+7) |  |  |
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High School

Year 10 Yearly Exam 2012

Mathematics Course

Multiple Choice Section Answer Sheet

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Completely fill the response oval representing the most correct answer.

1. A B C D

2. A B C D

3. A B C D

4. A B C D

5. A B C D

6. A B C D

7. A B C D

8. A B C D

9. A B C D

10. A B C D

11. A B C D

12. A B C D

13. A B C D

14. A B C D

15. A B C D

16. A B C D

17. A B C D

18. A B C D

19. A B C D

20. A B C D

21. A B C D

22. A B C D

23. A B C D

24. A B C D

25. A B C D

26. A B C D

27. A B C D

28. A B C D

29. A B C D

30. A B C D

31. A B C D

32. A B C D

33. A B C D

34. A B C D

35. A B C D

36. A B C D

37. A B C D

38. A B C D

39. A B C D

40. A B C D

41. A B C D

42. A B C D

43. A B C D

44. A B C D

45. A B C D

46. A B C D

47. A B C D

48. A B C D

49. A B C D

50. A B C D

|  |  |  |
| --- | --- | --- |
|  | **Section 2 Part B**  **Longer Answer** |  |
|  | 1. Price after 20% discount =   Price after further 10% disc = | 2 marks  1 for each step |
|  | 1. Total points for all other players from both teams = 66 + 51- 39   = 78 points  Ratio = 39 : 78 = **1 : 2** | 1 mark |
|  | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Stem | Leaves | | | | | | |  | | 0 | 0 | 2 | 8 | 9 |  |  |  |  | | 1 | 2 | 3 | 3 | 4 | 5 | 8 | 9 | 9 | | 2 | 0 | 1 | 3 | 4 | 6 | 6 |  |  | | 3 | 0 | 2 | 6 |  |  |  |  |  | | 4 | 5 | 7 | 8 |  |  |  |  |  | | 2 marks |
|  | 1. Mean = 323 ÷ 12 =26.9 | 1 mark |
|  | Interquartile Range = | 2 marks  1 for finding quartiles  1 for IQR |
|  | 1. (i)   (ii)  (iii) | 1 for area  1 for volume  2 for SA  (1for *x* and 1 for answer) |
|  |  | 1 for diagram  1 for    1 for bearing |
|  |  | 1 for angle  2 for proof  1 for TS |
|  |  | 1 for answer |
|  |  | 2 for correct solution  1 for attempted solution with 1 or 2 minor errors |
|  |  | 1 for answer  1 for gradient  1 for equation |