

4/16/2008

**Answer List**

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|---|--|--|
| 1. $-1, \frac{1}{8}, -\frac{1}{27}, \frac{1}{64}, -\frac{1}{125}$ | 2. 2, 3, 13, 178, 31853                                | 3. 62, 60; $a_n = 74 - 2n$                         |
| 4. 1458, 4374; $a_n = 2(3^n)$                                     | 5. $\frac{1}{37}, \frac{1}{50}; a_n = \frac{1}{n^2+1}$ | 6. -15   |
| 7. $\sum_1^5 (3n - 2)$  | 8. $\sum_1^5 \left(-\frac{2}{5}\right)^n$              | 9. arithmetic $d = 6\sqrt{5}$                      |
| 10. geometric $r = 6$   | 11. -40  | 12. 2.2  |
| 13. 42  | 14. 20   | 15. -156   |
| 16. 21.25   | 17. -465   | 18. 60   |
| 19. 100   | 20. -1260  | 21. 4096   |
| 22. $\sqrt{5}, -1250\sqrt{5}$                                     | 23. 13th   | 24. $\frac{9}{64}, \pm \frac{9}{32}, \frac{9}{16}$ |
| 25. $3^{\frac{3}{2}}, 3^{\frac{5}{6}}, 3, 3^{\frac{7}{6}}$        | 26. $3280\frac{4}{9}$                                  | 27. 8  |
| 28. $31\frac{31}{32}$   | 29. 4  | 30. no sum   |
| 31. $\frac{1}{4}$   | 32. $\sum_{n=1}^{\infty} \left(\frac{2}{5}\right)^n$   | 33. $-5\frac{1}{4}$                                |
| 34. 231.28  | 35. $\frac{16}{3}$                                     | 36. $x + 5$  |
| 37. 246 ft; 37  | 38. 18   | 39. \$7872   |
| 40. 15.5 km, 29 km  | 41. 512,000  | 42. \$23,841.86                                    |
| 43. $\approx 9.44$ cm   | 44. 70.4 ft  | 45. \$32,767                                       |

**Catalog List**

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|---------------|----------------|----------------|
| 1. TRI LA 98  | 2. TRI LA 121  | 3. TRI LB 34   |
| 4. TRI LB 93  | 5. TRI LB 105  | 6. TRI LC 26   |
| 7. TRI LD 18  | 8. TRI LD 74   | 9. TRI LE 40   |
| 10. TRI LE 94 | 11. TRI LF 21  | 12. TRI LF 47  |
| 13. TRI LF 57 | 14. TRI LF 64  | 15. TRI LG 16  |
| 16. TRI LG 10 | 17. TRI LG 32  | 18. TRI LG 45  |
| 19. TRI LG 57 | 20. TRI LG 75  | 21. TRI LH 17  |
| 22. TRI LH 35 | 23. TRI LH 65  | 24. TRI LH 58  |
| 25. TRI LH 62 | 26. TRI LI 11  | 27. TRI LI 49  |
| 28. TRI LI 33 | 29. TRI LI 58  | 30. TRI LK 34  |
| 31. TRI LK 29 | 32. TRI LM 24  | 33. TRI LM 13  |
| 34. TRI LM 44 | 35. TRI LM 103 | 36. TRI LM 109 |
| 37. TRI LN 7  | 38. TRI LN 4   | 39. TRI LN 14  |
| 40. TRI LN 24 | 41. TRI LN 47  | 42. TRI LN 35  |
| 43. TRI LN 50 | 44. TRI LN 58  | 45. TRI LN 68  |