Aptitude Papers General Aptitude Questions Aptitude Questions Set V

For the following, find the next term in the series

1. 6, 24, 60,120, 210
    a. 336
    b. 366
    c. 330
    d. 660
2. Answer: (a)
3. Explanation: The series is 1.2. 3,2.3. 4,3.4. 5,4.5. 6,5.6. 7, _____ ('' means product)
4. 1, 5,13, 25 Answer: 41 Explanation: The series is of the form $0^2 + 1^2$, $1^2 + 2^2$, ...
5. 0,5, 8,17 Answer: 24 Explanation: $1^2 - 1$,$2^2 + 1$,$3^2 - 1$,$4^2 + 1$,$5^2 - 1$
6. 1, 8, 9,64, 25 (Hint: Every successive terms are related) Answer: 216 Explanation: 1^2, 2^3, 3^2, 4^3, 5^2, 6^3
7. 8, 24, 12, 36,18, 54 Answer: 27
8. 71, 76, 69, 74,67, 72 Answer: 67
9. 5, 9, 16,29, 54 Answer: 103 Explanation: $5 * 2 - 1 = 9$; $9 * 2 - 2 = 16$; $16 * 2 - 3 = 29$; $29 * 2 - 4 = 54$; $54 * 2 - 5 = 103$
10. 1, 2, 4, 10, 16,40, 64 (Successive terms are related) Answer: 200 Explanation: The series is powers of 2 (2^0, 2^1,) . All digits are less than 8. Every second number is in octal number system. 128 should follow 64.128 base 10 = 200 base 8.

Exercise 2.2

Find the odd man out:

1. 3, 5, 7, 12, 13,17, 19 Answer: 12 Explanation: All but 12 are odd numbers
2. 2, 5, 10, 17, 26, 37,50, 64 Answer: 64 Explanation: $2 + 3 = 5$; $5 + 5 = 10$; $10 + 7 = 17$; $17 + 9 = 26$; $26 + 11 = 37$; $37 + 13 = 50$; $50 + 15 = 65$
3. 105, 85, 60, 30,0, 45,90

Answer: 0

Explanation: $105 - 20 = 85$; $85 - 25 = 60$; $60 - 30 = 30$; $30 - 35 = -5$; $5 - 40 = -45$; $45 - 45 = -90$.