coding and decoding

1. 23, 28, 38, 53, 73, ? ⇒ 98
   (+5, +10, +15, +20, +25)

2. 17, 45, 148, 607, ?, 18331
   ⇒ 17×2+11 = 45
   45×3+13 = 148
   148×4+15 = 607
   607×5+17 = 3052
   3052×6+19 = 18331

3. 5, 366, 655, ? 1049, 1170

1,4 (5,?)	366 → 1049 = 683
2,5 (366, 1049)	655 → 1170 = 515
3,6 (655, 1170)	so, 5 + 875 = 880

4. 1598, 798, 398, 198, ?, 48
   ⇒ 1598 - 798 = 800
   798 - 398 = 400
   398 - 198 = 200
   198 - ? = 100
   ? - 48 = 50 ⇒ 198 - 100 = 98
   98 - 48 = 50

5. 2, 3, 14, ?, 2068, 51705
   ⇒ 2×1+1 = 3
   3×4+2 = 12
   14×9+3 = 129
   129×16+4 = 2068
   2068×25+5 = 51705
   so, Ans is 129.