

Practice:-

1 Ans: Differences:-

- $28 - 23 = 5$
- $38 - 28 = 10$
- $53 - 38 = 15$
- $73 - 53 = 20$
- So next difference = 25

Ans: $73 + 25 = 98$

2 Ans: Patterns (each no x some value for)

- $17 \times 2 + 11 = 45$
- $45 \times 3 + 13 = 148$
- $148 \times 4 + 19 = 607$
- $607 \times 5 + 23 = 3058$
- $3058 \times 6 + 43 = 18331$

Ans: 3058

3 Ans: Differences:-

• $366 - 5 = 361 = 19^2$

- $655 - 366 = 289 = 17^2$
- $? - 655 = 225 = 15^2 \rightarrow ? = 655 + 225 = 880$
- $1049 - 880 = 169 = 13^2$
- $1170 - 1049 = 121 = 11^2$

Ans: 880

4Ans: Differences:-

- $1598 - 798 = 800$
- $798 - 398 = 400$
- $398 - 198 = 200$
- $198 - ? = 100 \rightarrow ? = 98$
- $98 - 48 = 50$

5Ans: Let's check patterns:-

- 2
- $3 = 2 + 1$
- $14 = 3 \times 4 + 2$
- $? = 14 \times 10 + 4 = 144$
- $40 \times 2 + 20 = 100$
- Doesn't fit with 2068

Try Known values:-

- 2, 3, 14, ?, 2068

check!

- $3 = 2 + 1$
- $14 = 3 \times 4 + 2$
- Try reverse from 2068

Let's test:-

- $14 \rightarrow ?$