

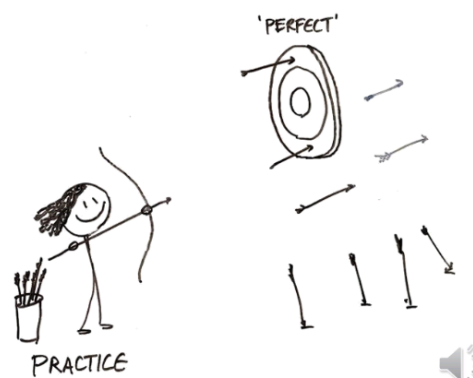


India's leading Workforce Development Platform that helps learners in building careers with leading corporates through training & other career-building services.

#letslearntoearn

• Practice:

1. 23, 28, 38, 53, 73, ?
2. 17, 45, 148, 607, ?, 18331
3. 5, 366, 655, ?, 1049, 1170
4. 1598, 798, 398, 198, ?, 48
5. 2, 3, 14, ?, 2068, 51705



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2:21:13 / 8:00:00



$$14 \rightarrow ?$$

$$? \rightarrow 2068$$

$$2068 \rightarrow 51705$$

$$51705 \div 2068 \approx 25$$

$$2068 \div ? \approx ?$$

$$14 \rightarrow ?$$

$$\text{Try } x5+3 = 14 \times 5 + 3 = 73$$

$$73 \times 6 + 5 = 438 + 5 = 443x$$

$$14 \times 10 + 6 = 146$$

$$146 \times 14 + 12 = 2068 \checkmark$$

$$2068 \times 25 + 5 = 51705 \checkmark$$

$$\underline{\underline{146}}$$

$$1170 - 1049 = 121$$

$$361 = 19^2$$

$$289 = 17^2$$

?

$$121 = 11^2$$

Seems like squares decreasing by 2:  $19^2, 17^2, 15^2, 13^2, 11^2$

$$15^2 = 225 \rightarrow \text{next} \Rightarrow 665 + 225 = 880$$

Check:

$$1049 - 880 = 169 \rightarrow 13^2 \quad \checkmark \quad \underline{880}$$

4) 1598, 798, 398, 198, ?, 48

$$1598 - 800 = 798$$

$$798 - 400 = 398$$

$$398 - 200 = 198$$

$$198 - 100 = \underline{98}$$

$$98 - 50 = 48$$

5) 2, 3, 14, ?, 2068, 51765

$$2 \rightarrow 3 (+1)$$

$$3 \rightarrow 14 (\times 4 + 2)$$

## Number series

1) 23, 28, 38, 53, 73, ?

$$28 - 23 = 5$$

$$38 - 28 = 10$$

$$53 - 38 = 15$$

$$73 - 53 = 20$$

Next difference = 25

$$73 + 25 = \underline{\underline{98}}$$

2) 17, 45, 148, 607, ?, 18331

$$45 = 17 \times 2 + 11$$

$$148 = 45 \times 3 + 13$$

$$607 = 148 \times 4 + 15$$

$$? = 607 \times 5 + 17$$

$$3035 + 17 = \underline{\underline{3052}}$$

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

$$366 - 5 = 361$$

$$655 - 366 = 289$$

$$? - 655 = ?$$

$$1049 - ? = ?$$