

Foundation Batch



MATHS

Average (औसत)

LIVE 22-05-2024 07:00PM



AVERAGE

औसत

$$\text{औसत} = \frac{\text{युग्मों का योग}}{\text{युग्मों की संख्या}} = \frac{\text{Sum of Terms}}{\text{No. of terms}}$$

ex

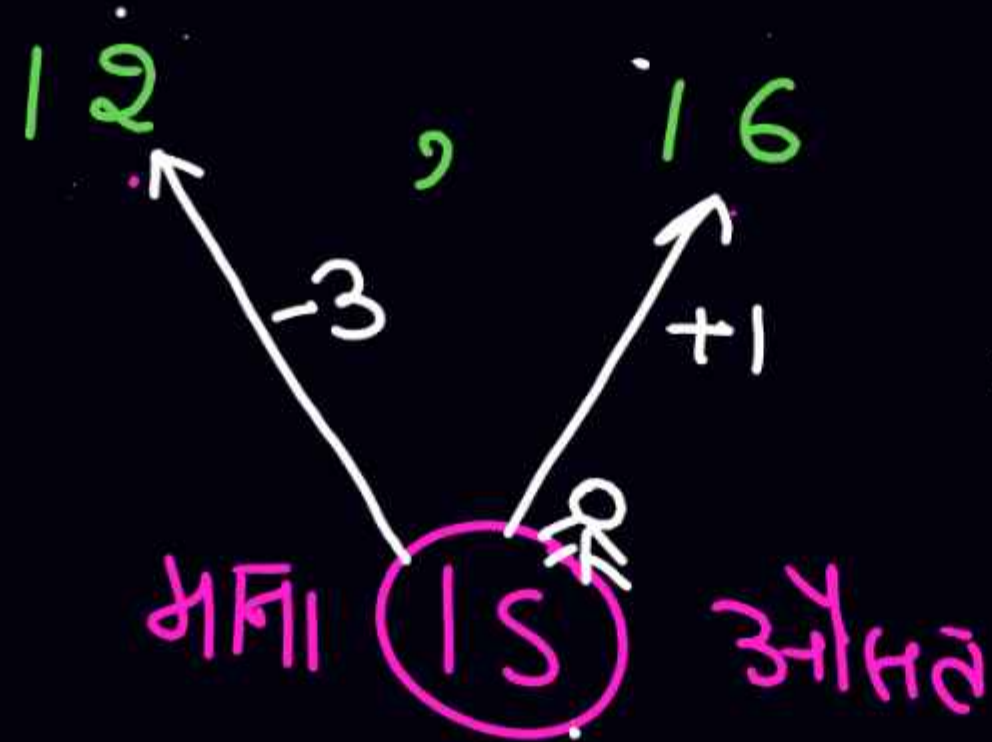
2, 3, 10, 12, 3
6 6 6 6 6

$$\text{औसत} = \frac{2+3+10+12+3}{5}$$

$$\frac{30}{5} \text{ (6)}$$

* Average \rightarrow हमेशा minimum और maximum संख्या के बीच में कहीं होगा।

[DEVIATION METHOD] विचलन विधि

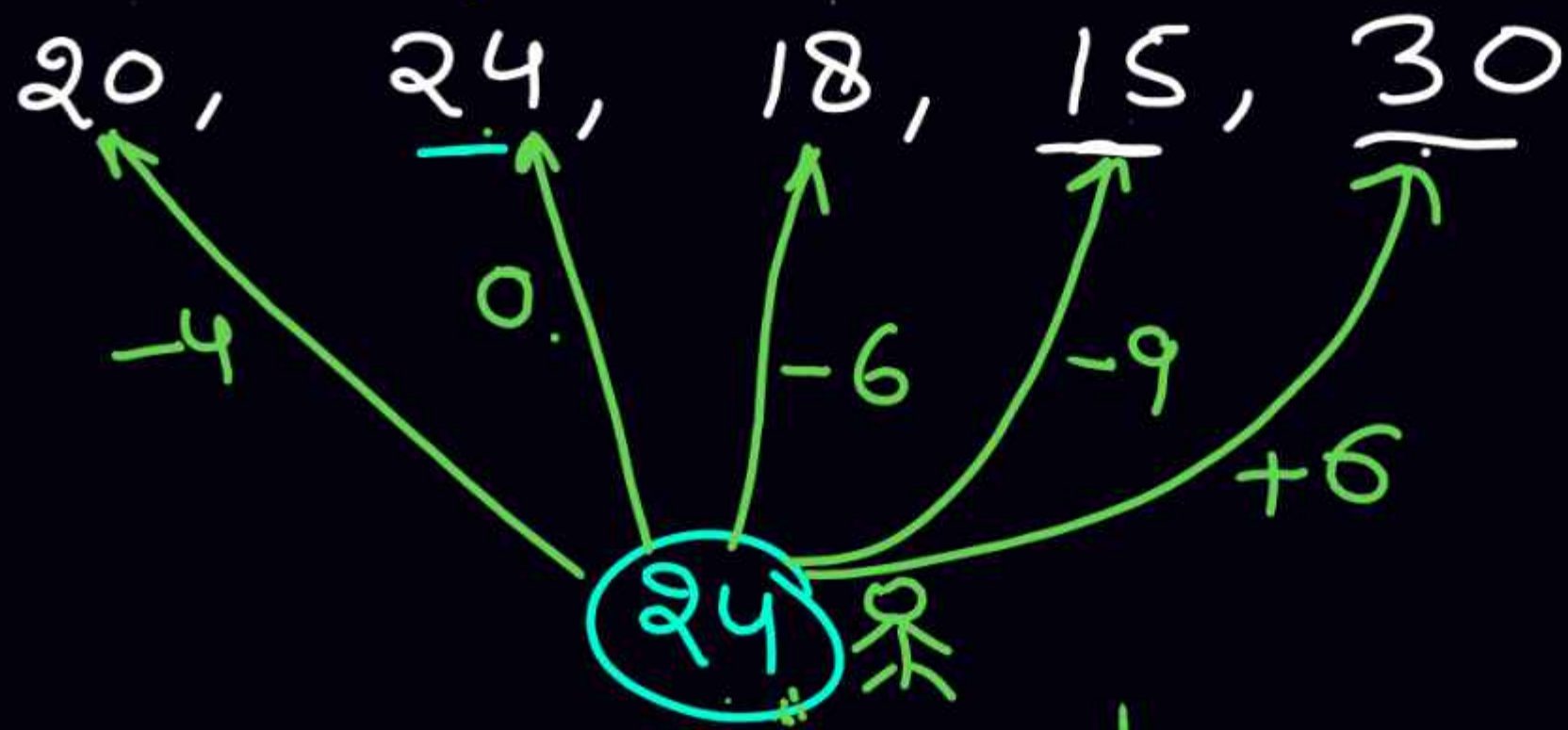


$$= \text{Total Dev.} = -3 + 1 \\ = -2$$

$$\text{औसत में Dev.} = \frac{-2}{2} = -1$$

सही औसत

$$= 15 - 1 = 14$$



$$\text{Total Dev} = -4 + 0 - 6 - 9 + 6$$

$$-4 - 9 = -13$$

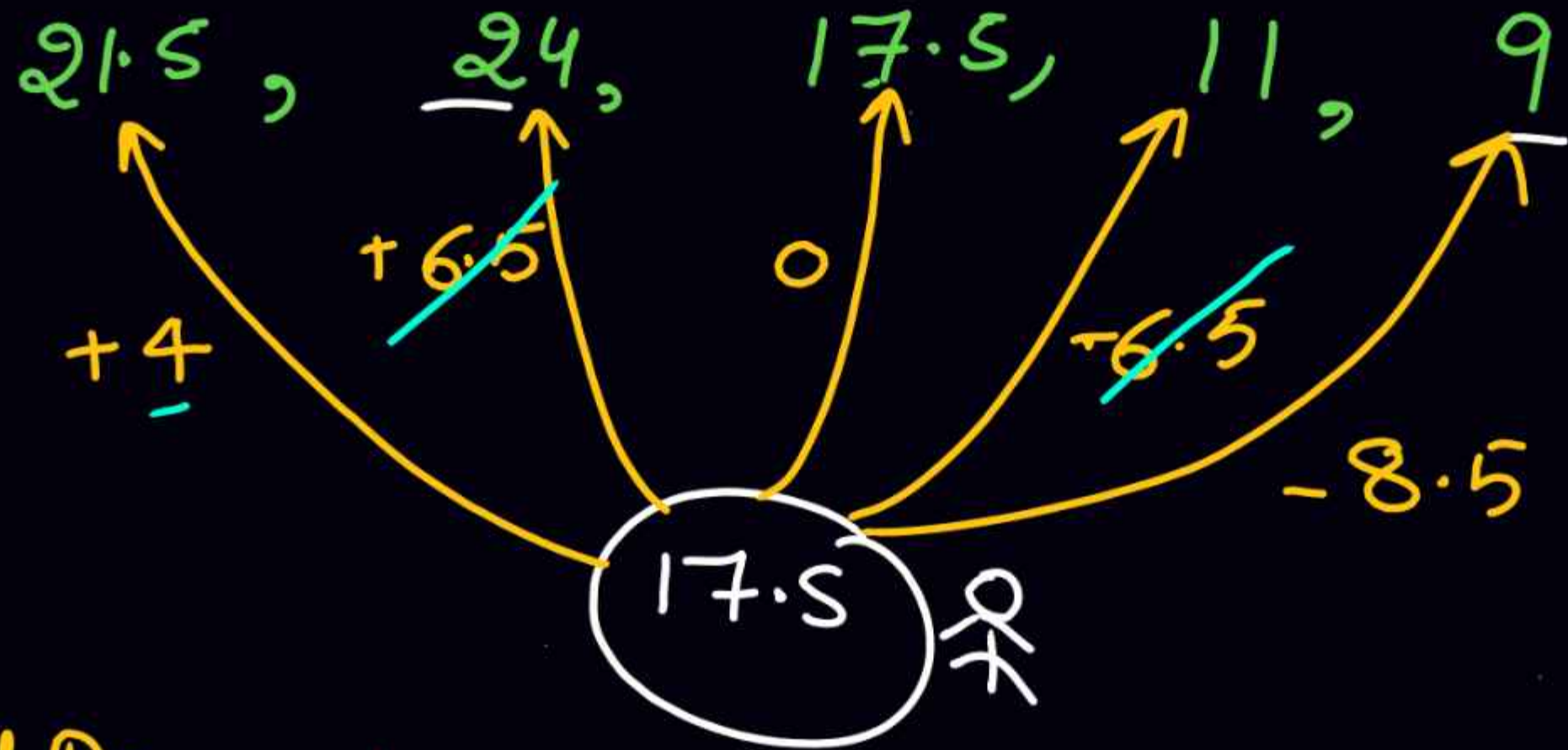
$$\text{Avg में Dev.} = \frac{-13}{5}$$

$$-2.6$$

सही औसत

$$24 - 2.6$$

$$\Rightarrow 21.4 //$$

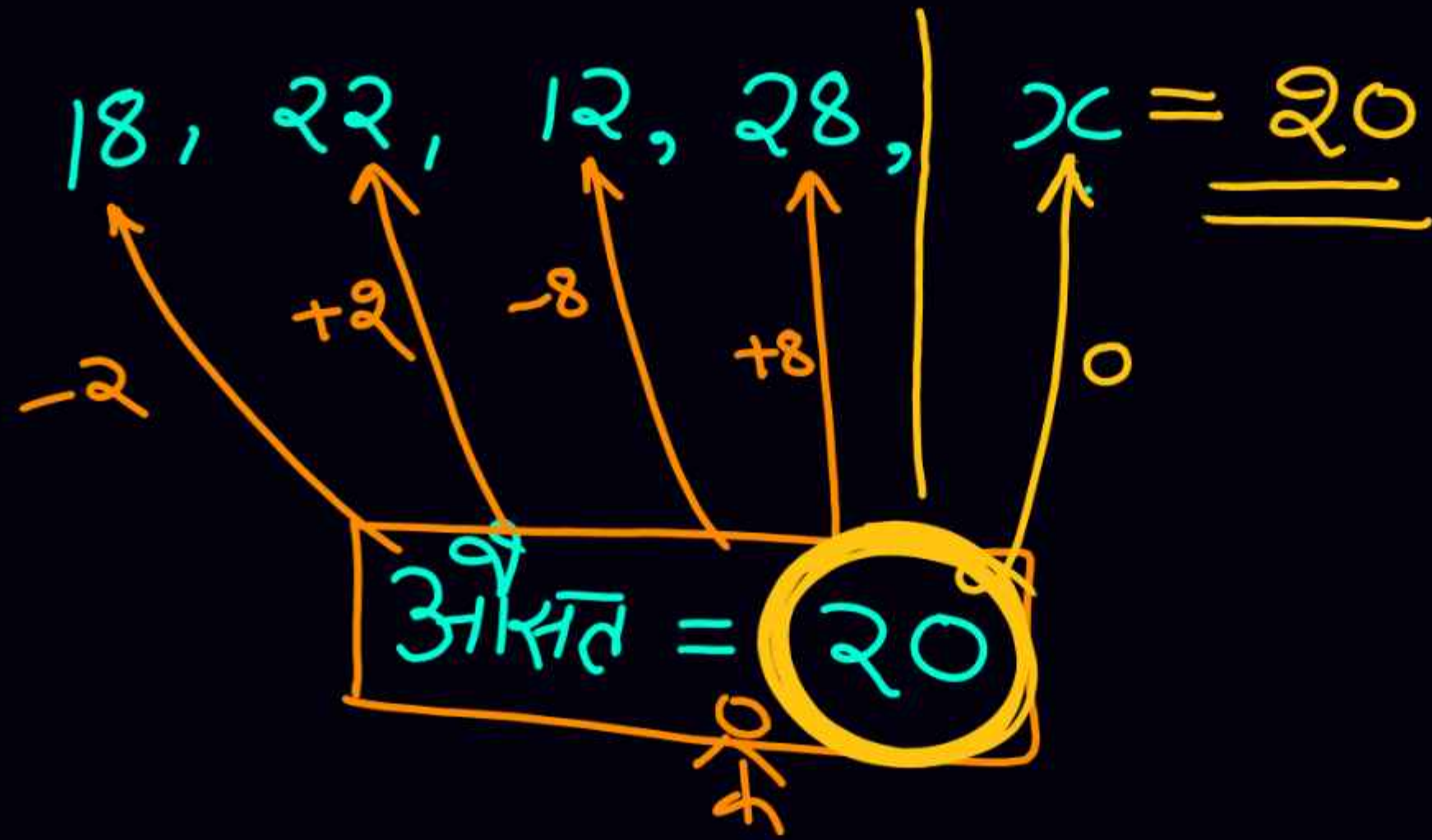


$$\text{Total Dev.} = 4 - 8.5 = -4.5$$

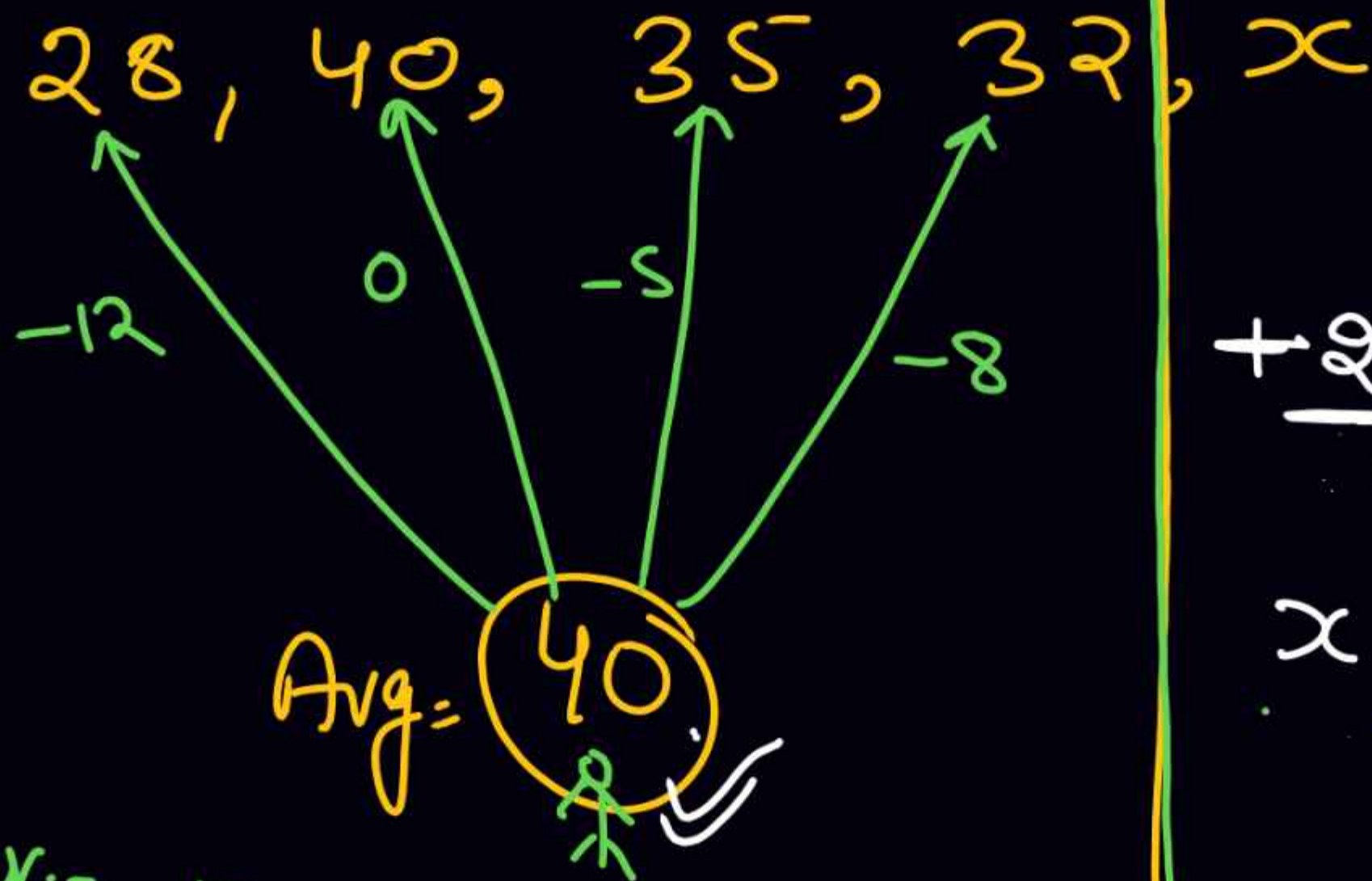
$$\text{औसत के Dev.} = \frac{-4.5}{5} = -0.9$$

सही औसत

$$17.5 - 0.9 = 16.6$$



कुल Dev. = $-2 + 2 - 8 + 8 = 0$

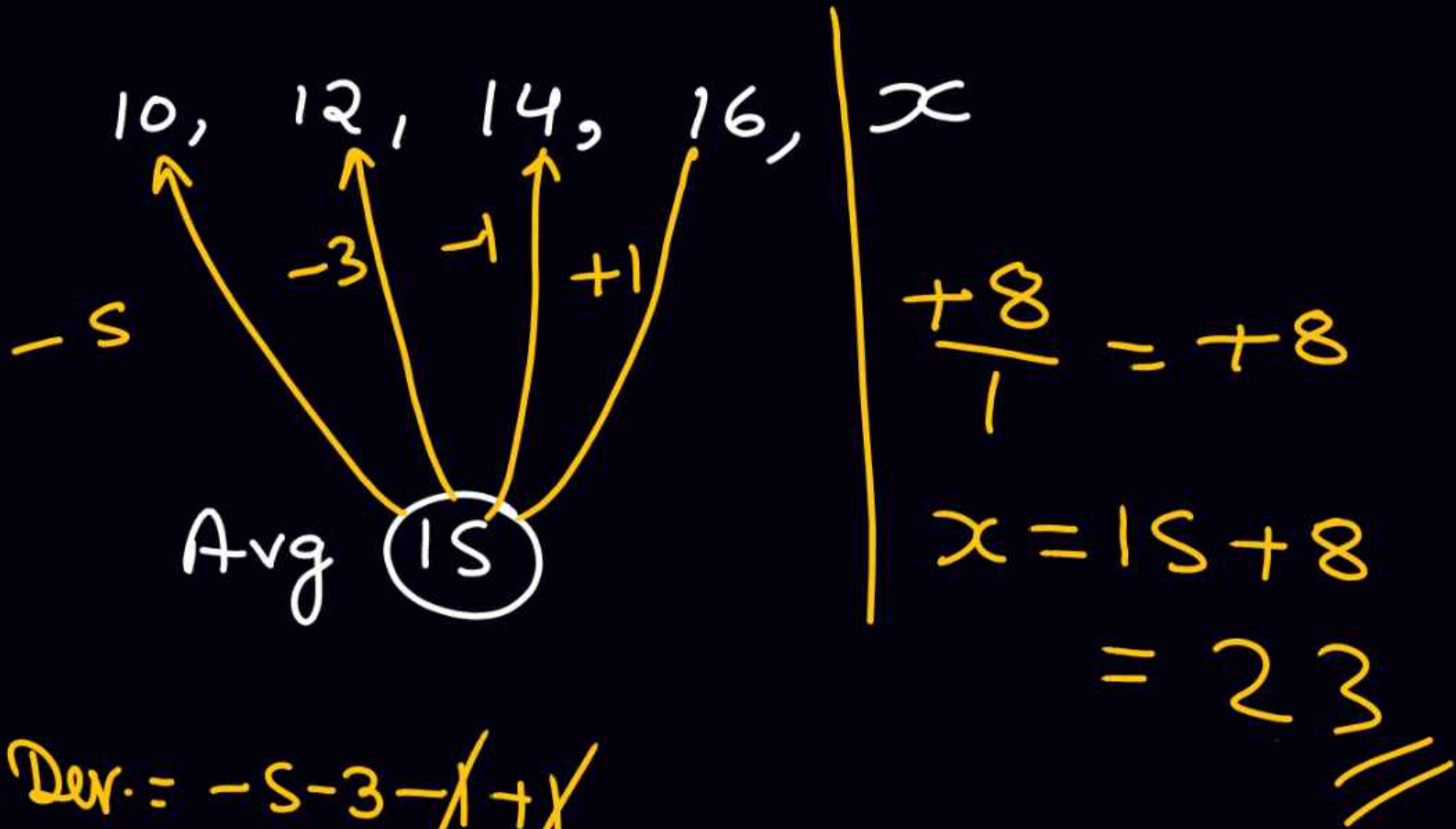


Total Dev. = $-12 + 0 - 5 - 8$
 -25

$$\frac{+25}{1} = +25$$

$$x = 40 + 25$$

$$\underline{\underline{65}}$$



Total Dev. = $-5 - 3 - 1 + 1$

$$= -8$$

30, 18, 20, 23, | A, B

A+B=?

औसत (19)