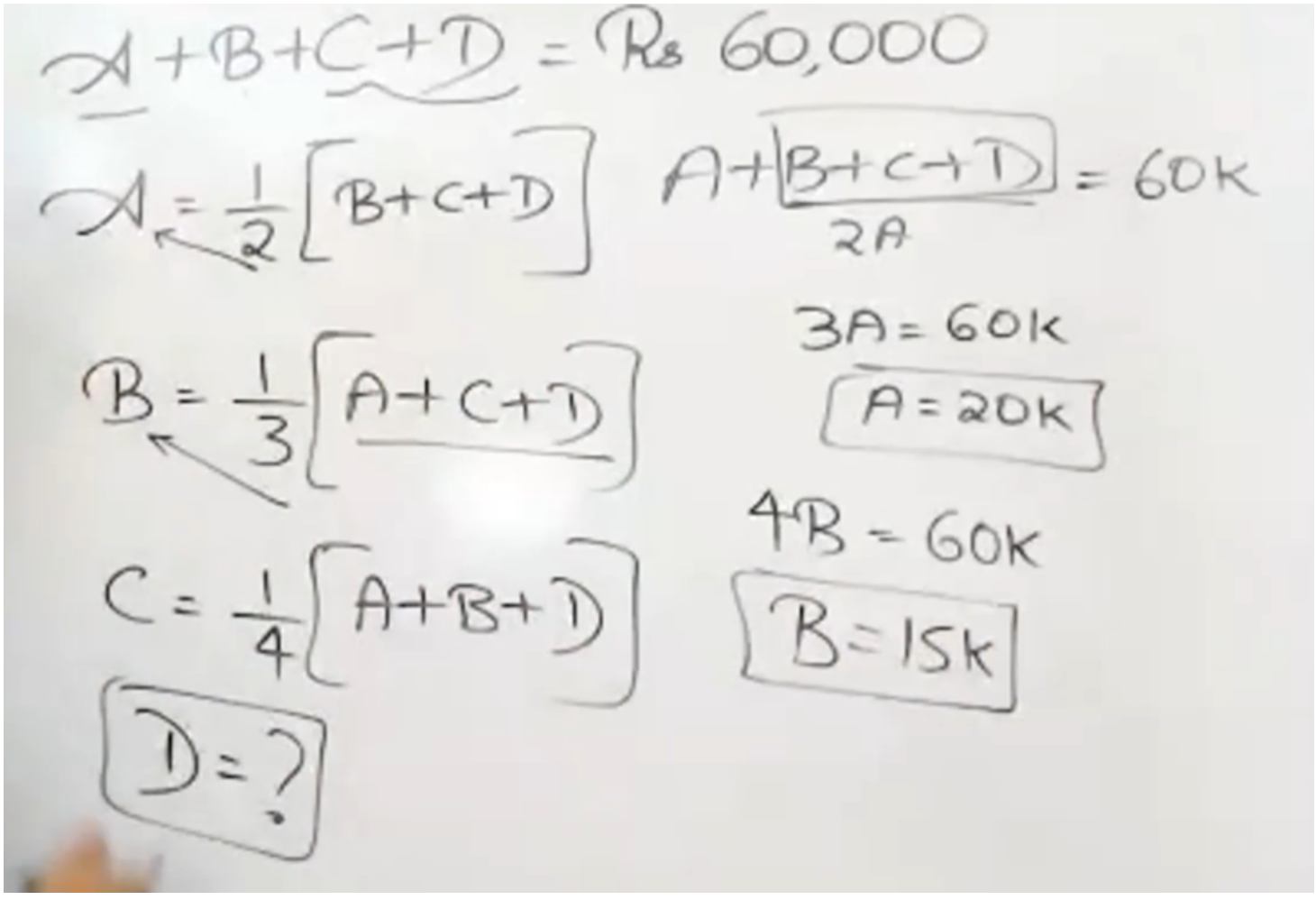
jargons

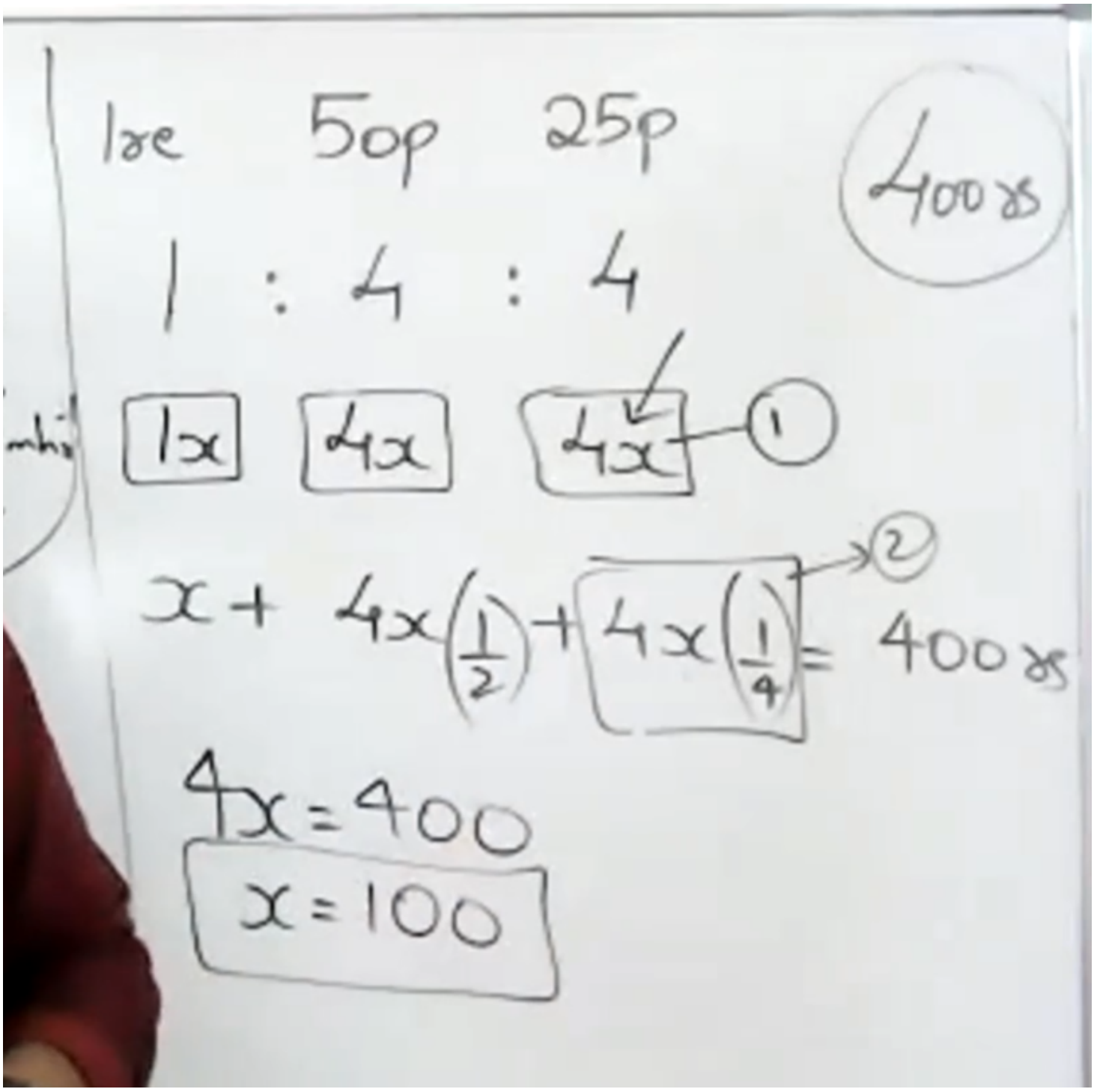
- **compounded = product**
- **sub-duplicate = squareroot**
- **duplicate = squared**
- **triplicate = cube**

simple trick you missed



you must have a common denotion

- **here ratio is for the number of coins and not values**

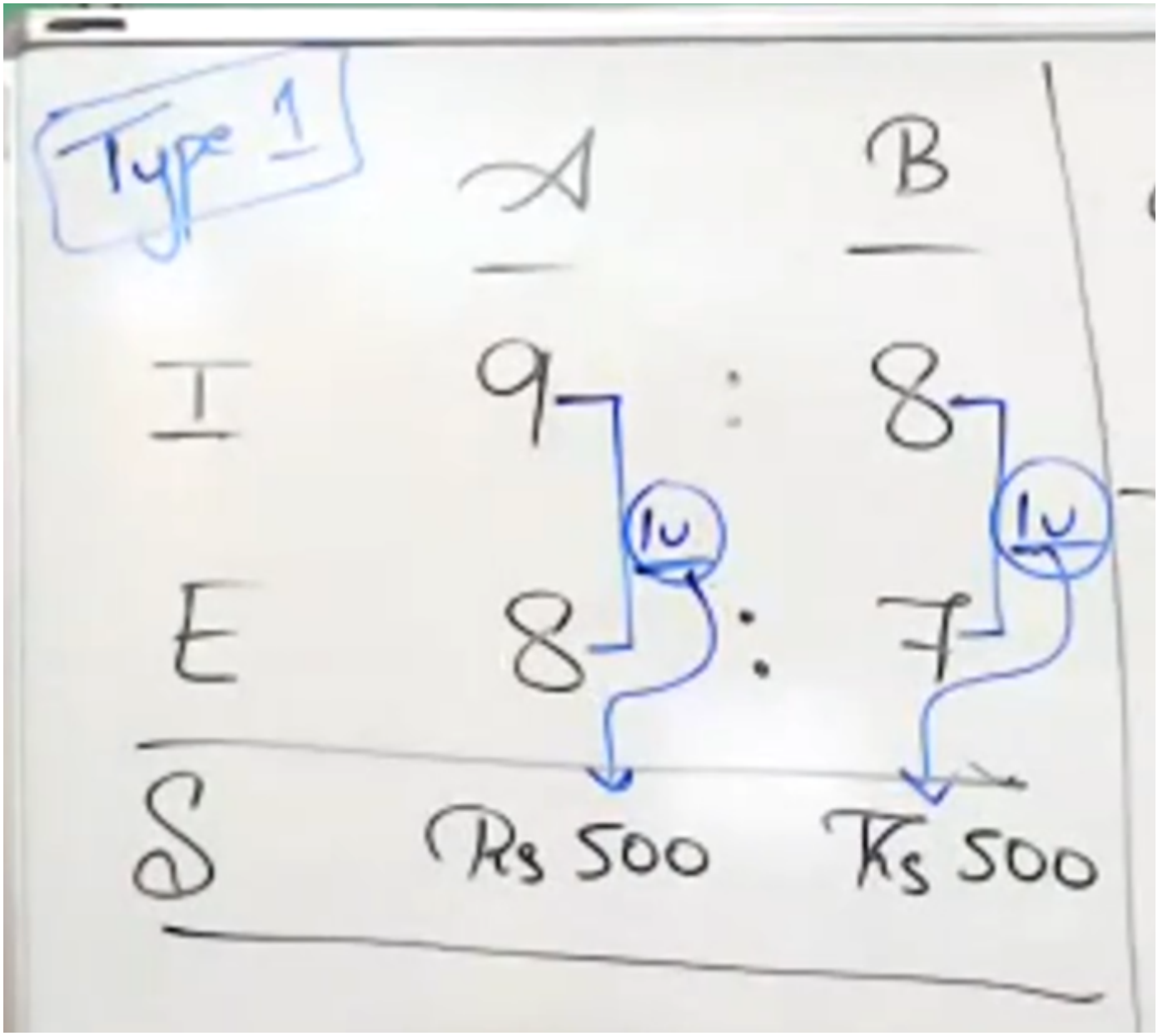


RATIO TRICKS

type1

- **things to look for**
  - **difference in the `income` and `expense` ratio is same**
  - **their savings must be same as well**
- **only then you can use the trick below**

-



- ##### here they asking A's salary

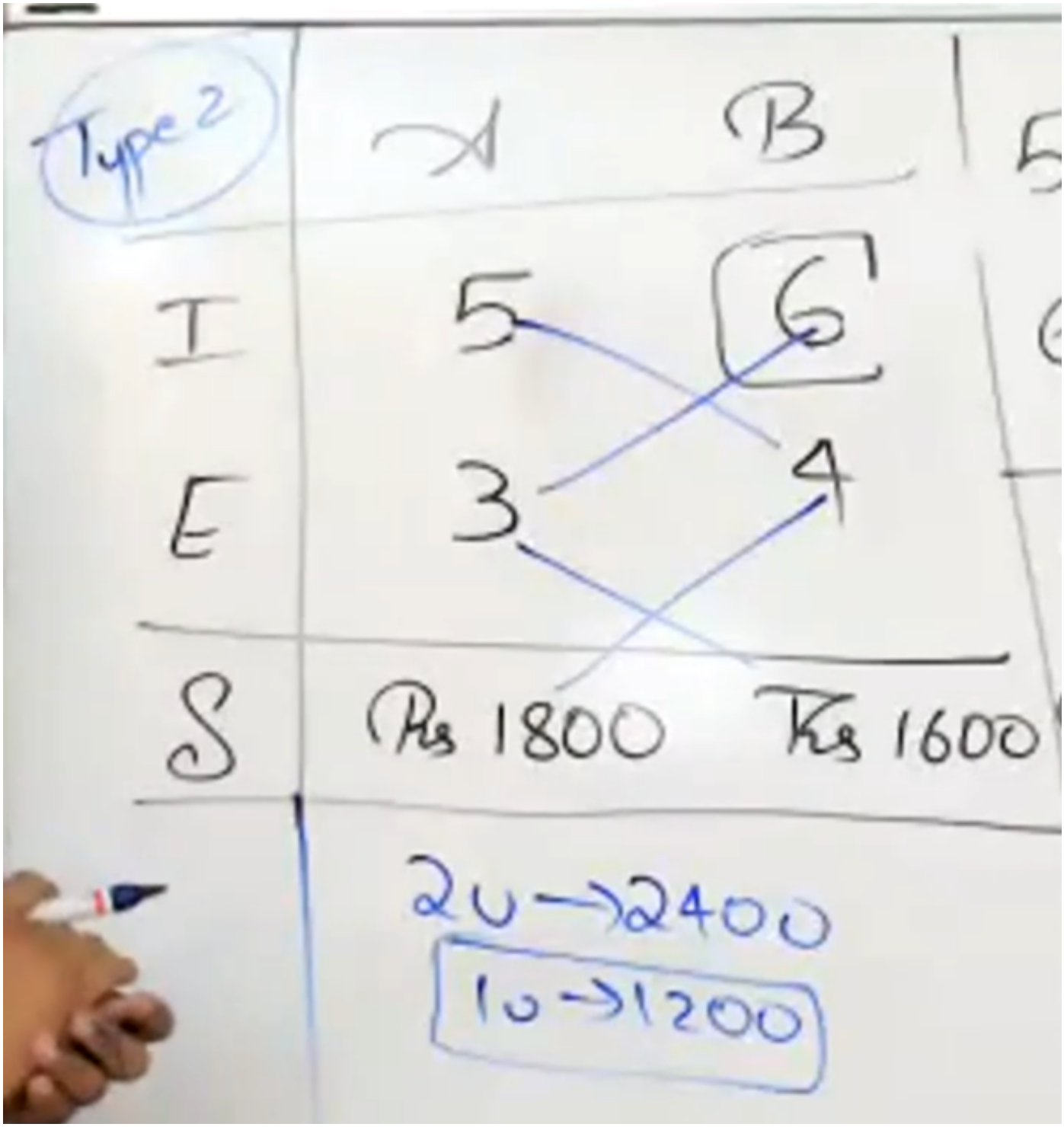
- **here difference is one so**

$$1u = 500$$

- **using this we can get anything**

type2

- ## things to look for
  - **difference in the `income` and `expense` ratio is same**
  - **their savings aint gonna be same**
-



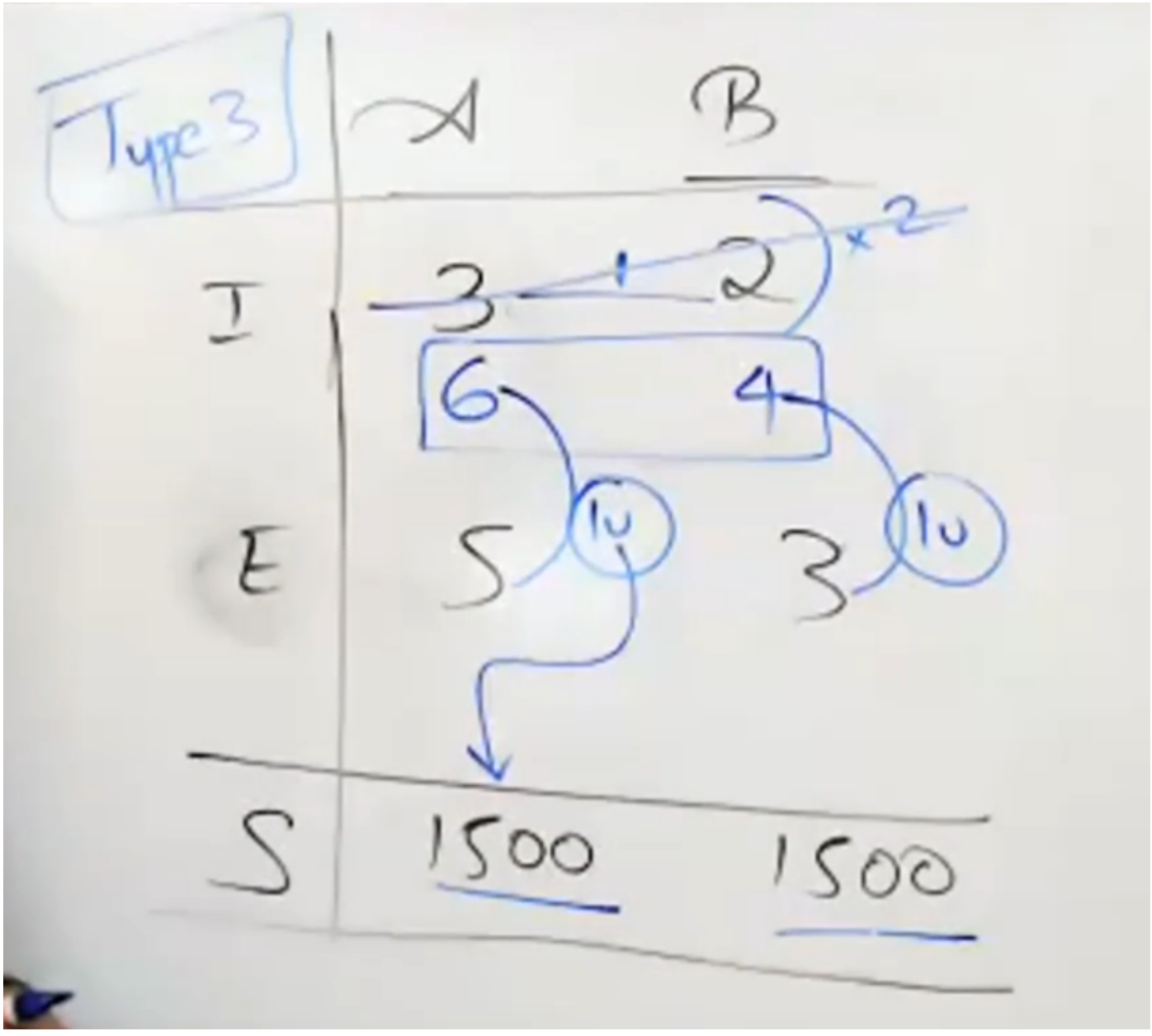
- here they asking B's salary

- **here we do $5 * 4 - 6 * 3 = 2u$ for lhs**
- **here for we do $4 * 1800 - 3 * 1600$ for rhs**
- **finally you have**

$$2u = 2400$$

- **hence you have `1 unit as 1200`**

type3

- **things to look for**
  - **difference in the `income` and `expense` ration is different**
  - **their savings is same**
- 

    - **here they asking B's salary**

- **make the difference the ratio's numerator and denominator as same**
- **here 2 is multiplied for income ratio cuz it is the lcm of $3-2$ and $5-3$ m and TOTALLY discard the previous ratio**
- **yo answer is $1500 * 4 = 6000$**