

# Foundational Mathematics for Web3 Builders

## Revision Questions

May 9, 2024 & May 16, 2024



it back to the chair.  $C$  now has a piece of paper with either 9367 (if  $B$  voted Yes), 9341 (if  $B$  voted No), or 1940 (if  $B$  abstained). Because  $C$  does not know the original number, there is no way to know how  $B$  voted.

No, and there were 2 abstention (since  $19 + 5$  is 2 less than 26).

Note that the above voting scheme has a security flaw. For instance, if  $B$  and  $D$  compare notes they can tell how  $C$  voted. Therefore, this method should be used only with a friendly committee.

value of  $\text{LCM}(m, n)$  to the values of  $m, n$ , and  $\text{gcd}(m, n)$ . Try to find a relationship.

c) Use your result in (b) to compute  $\text{LCM}(816, 936)$ .

4. Find a solution in integers to the following equations

$$18107x + 3292y = \text{gcd}(18107, 3292)$$