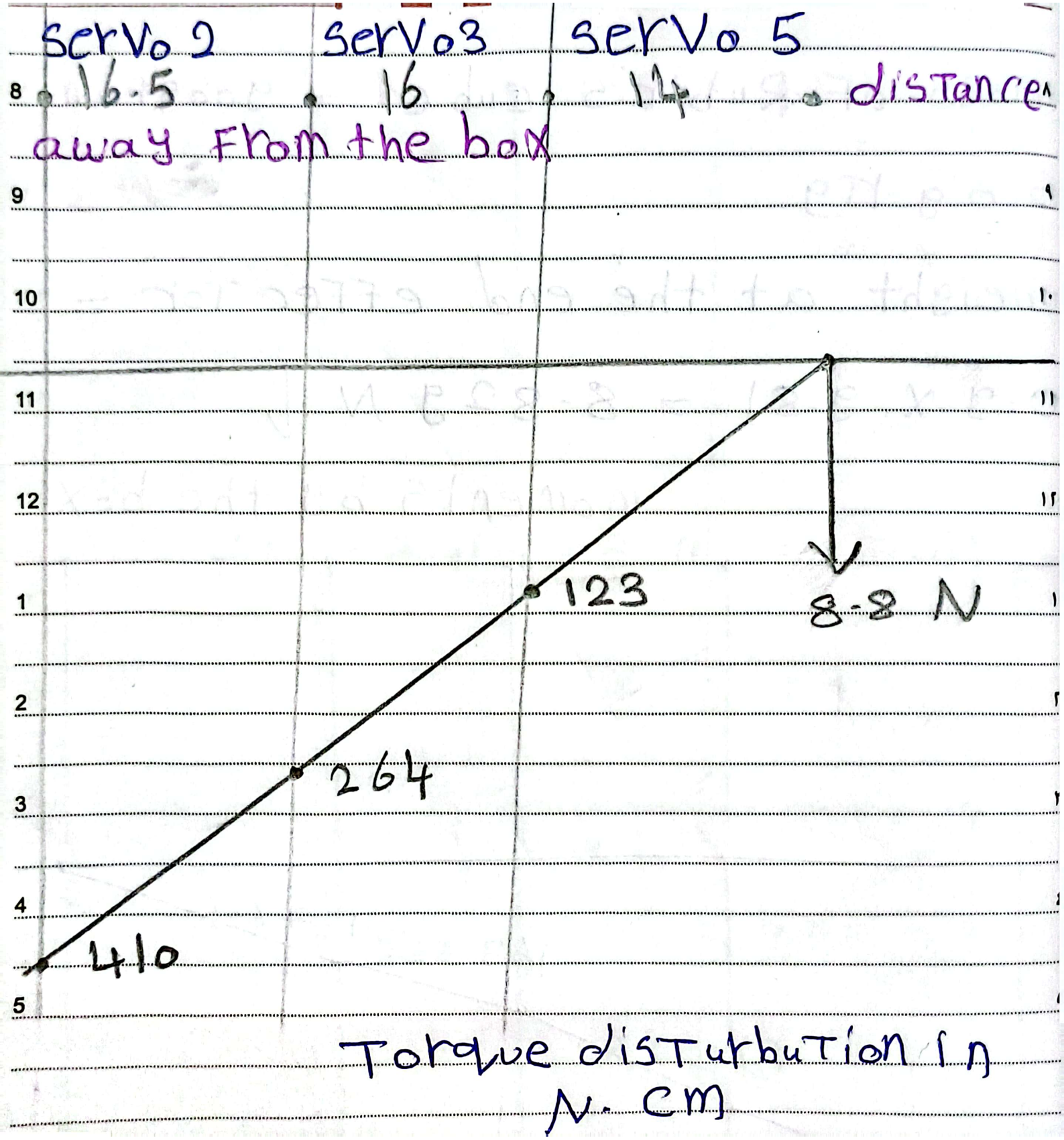
servo 2
servo 3
servo 5
16.5
16
distance away from the box
123
8.8 N
264
410
Torque distribution in N.cm

14 + 4.5 = 18.5 distance between servo 4 and the box

Torque needed = 18.5 x 8.829 =

163.3365 servo 4

For base servo

16.5 + 16 + 14 = 46.5 cm

Torque needed = 46.5 x 8.829 =

410.5485 N.cm servo 1

May

5 Shàaban 1437 Hijri

182.79 N

283 N

178.57 N

16.5

16

14

10000 gF/CM

2600 gF/CM

-123 gF/CM

8.8 N

So our robot max weight to be carried is equal 178.57 gram determined by servos where

max weight it can carry = Torque provided / length of gripper

2.5 Kg-cm / 14 cm = 178.57