

Item (1)

Boxes of cooking oil = 324

12(27) 81(4)

162(2) 3(108)

9(36) 18(18)

54(6)

cartons of salt = 108

36(3)

12(9)

27(4)

Bags of sugar = 115

5(23)

note: Take care
of divisibility
and ability to
be realistic

Cartons of water = $\frac{1}{3} \times 108 = 36$

12(3) 6(6)

9(4) 18(2)

(b) Cost of 5 cartons = 100,000 =
(25 x 5) = 120 sacks

Selling bundle of 3 sacks = $\frac{120}{3} = 40$

Amount received = $40 \times 2850 = 114000$

profit made = $114000 - 100,000$

= 14000

Reason: she will benefit because she makes a profit of 14000 that day.

(c) 1 : 2 : 3 ✓
x 18000 K. ✓

$2 \times K = 18000$ ✓
63

$\frac{2}{18000} = \frac{3}{K}$ ✓

$K = 54000$ tons ✓

3×54000 ✓
16

$K = 27000$ tons ✓

Aggregates = 27000 tons ✓

d) LCM of 3 and 5 = 15 =

3	3	5	✓	3x5 ✓
5	1	5	✓	15 months ✓
	1	1		

from Jan 2024 = April 2025 ✓
(Jan + 15 months) ✓

Item ② forming eqn

let K represent no of adults

b no of children

$$20000K + 10000b = 900,000 \text{ --- (1)}$$

$$K + b = 50 \text{ --- (2)}$$

solve eqn (1) and (2)

$$K + b = 50$$

$$- 20K + b = 90$$

$$-K = -40$$

$$K = 40$$

put K in eqn (2)

$$40 + b = 50$$

$$b = 10$$

choice 40 adults and 10 children.

Reason not 35 adults and 15 children

Formation of the equation

$$x + y \geq 12$$

$$x \geq 3y$$

$$x \geq 0$$

$$y \geq 0$$

Boundary lines are $x + y = 12$

$$x = 3y \quad x = 0 \text{ and } y = 0$$

for $x = 3y$

x	0	3
y	0	1

for $x + y = 12$

x	6	12
y	6	0

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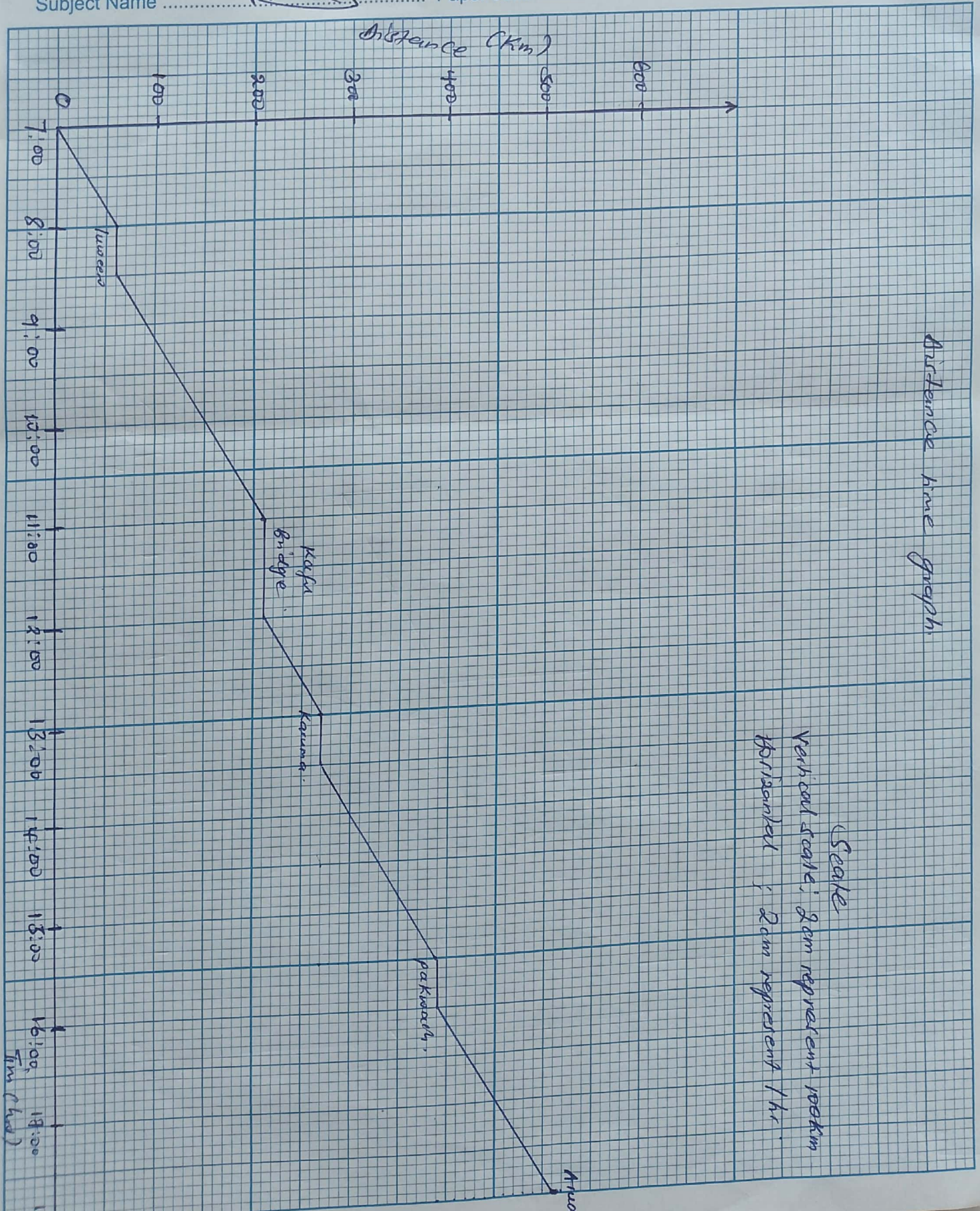
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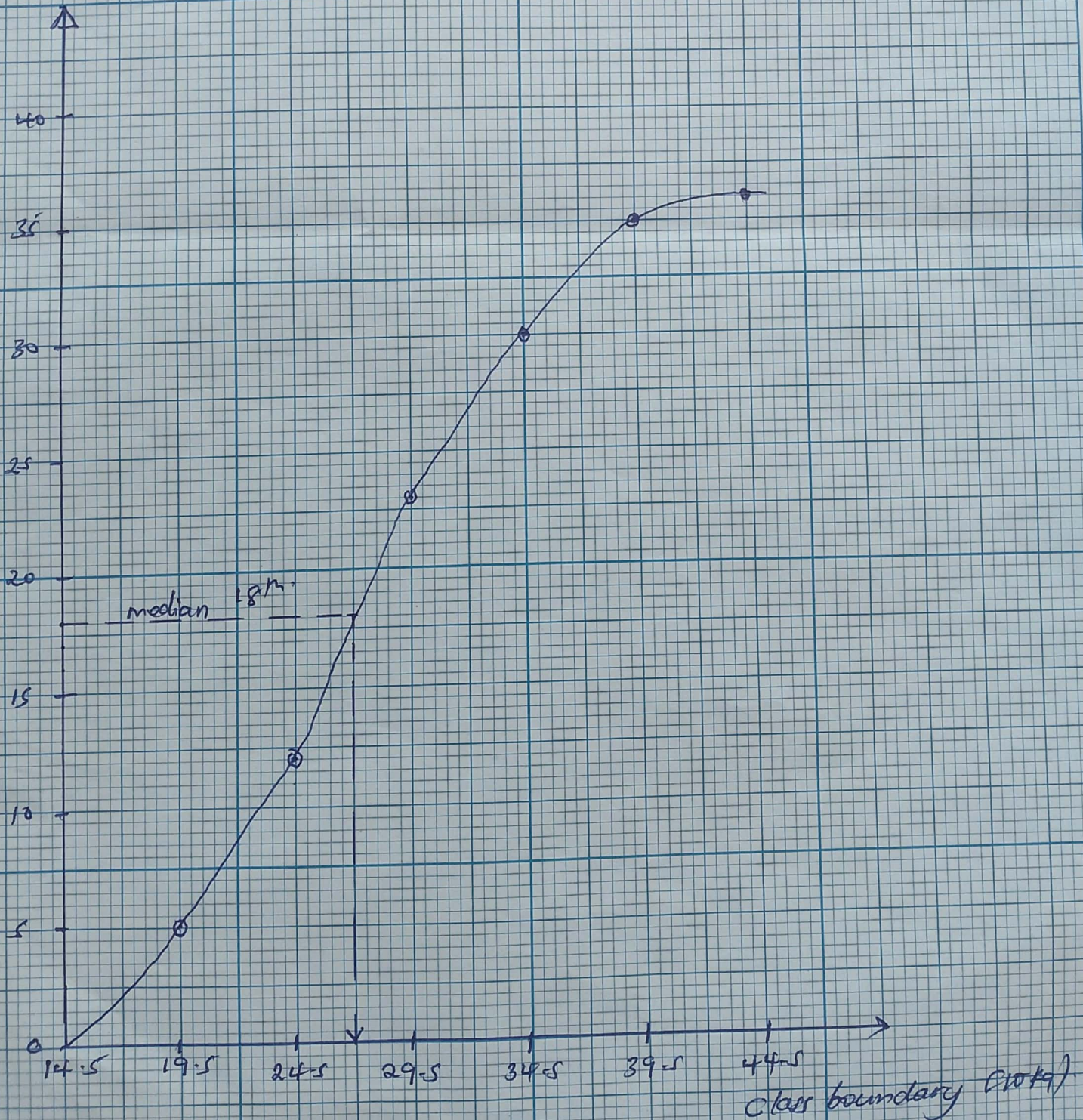
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Item ③

Assumed mean = 270

class	freq	f	CF	X	d = X - A	fd	CB
150 - 199	HHH	5	5	174.5	-95.5	-477.5	149.5 - 199.5
200 - 249	HHH	7	12	224.5	-45.5	-318.5	199.5 - 249.5
250 - 299	HHH H	11	23	274.5	4.5	49.5	249.5 - 299.5
300 - 349	HHH	7	30	324.5	54.5	381.5	299.5 - 349.5
350 - 399	HHH	5	35	374.5	104.5	522.5	349.5 - 399.5
400 - 449	I	1	36	424.5	154.5	154.5	399.5 - 449.5
Sum		36				312	

$$\text{mean} = \frac{A + \frac{\sum fd}{\sum f} X}{\sum f}$$

$$= \frac{270 + \frac{312}{36}}{1}$$

$$= 278.6667$$

Assumption of 270 kg was not exactly right because each receiver 278.6667, 279 kg

② Above 310

320, 330, 340, 350, 360, 370, 380, 390, 400

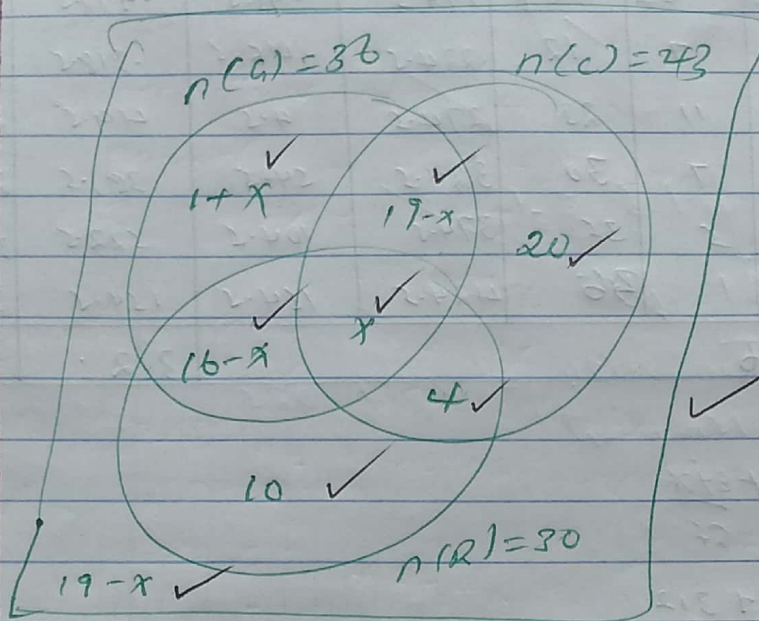
f 320, 390, 240, 400, 280, 350, 240, 360, 280, 380

$$n(E) = 10$$

$$\text{chance} = \frac{10}{36}$$

=

Item (4)



$$1+x+19-x+19-x+16-x+x+4+10+20=89$$

$$89-x=80$$

$$x=9$$

$$89-80=x$$

$$\text{Coffee farmers} = 19-9 \checkmark$$

$$=10$$

$$x=9$$

$$\text{Chance} = \frac{10}{80}$$

$$= \frac{1}{8} \checkmark$$

$$⑥ \begin{pmatrix} 36 & 43 & 30 \\ 100,000 \\ 50,000 \\ 150,000 \end{pmatrix} \checkmark$$

$$3600,000 + 2150,000 + 4500,000 \checkmark$$

$$= 11050,000$$

$$\begin{array}{l} \text{G. Nuts} \} = 3600,000 \checkmark \\ \text{Cashew} \} \text{Received} = 2150,000 \checkmark \\ \text{Rice} \} = 4500,000 \checkmark \end{array}$$

Explanation:

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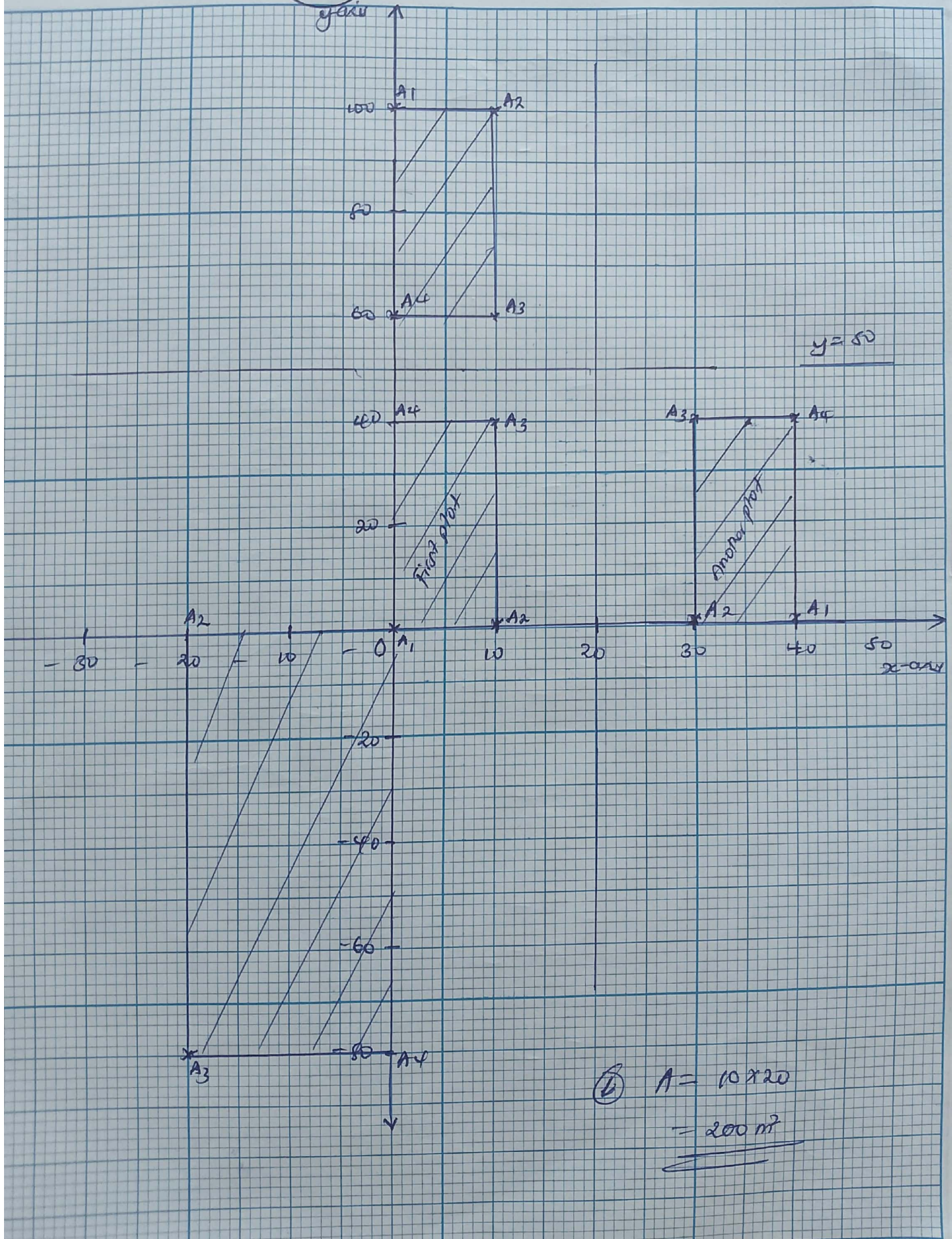
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① $A = 10 \times 20$
 $= 200 \text{ m}^2$