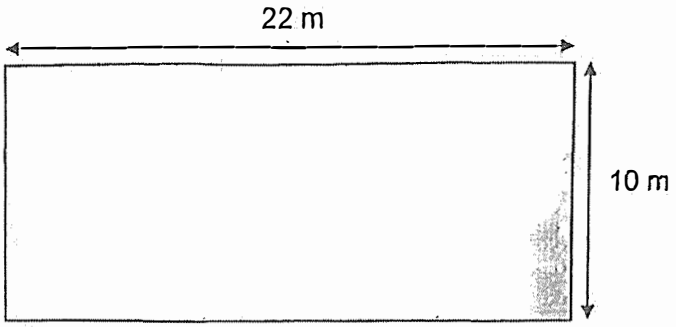
Tao Nan School
2025 P5 Mathematics Weighted Assessment 2

Name: _____( ) Class: 5___ Date: _____

Mr Samy has a rectangular plot of land measuring **22 m by 10 m**.



Mr Samy's plot of land (Top View)

He wants to give all the land to his 3 sons:

- The **eldest son** will get the **largest possible square** piece of land.
- **The second son** will get a plot of land that is **4 times the area** of the **youngest son's** land.

Task 1: Area of each plot of land

Show 2 different methods to calculate the area of the plot of land for each son.

Use the **working space provided** to:

- Calculate the area of land each son receives.
- Show your working clearly.
- You may use a calculator.

Method 1

Method 2

Area of land each son received (in m^2)	
Eldest Son	
Second Son	
Youngest Son	

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Task 2: Land Distribution

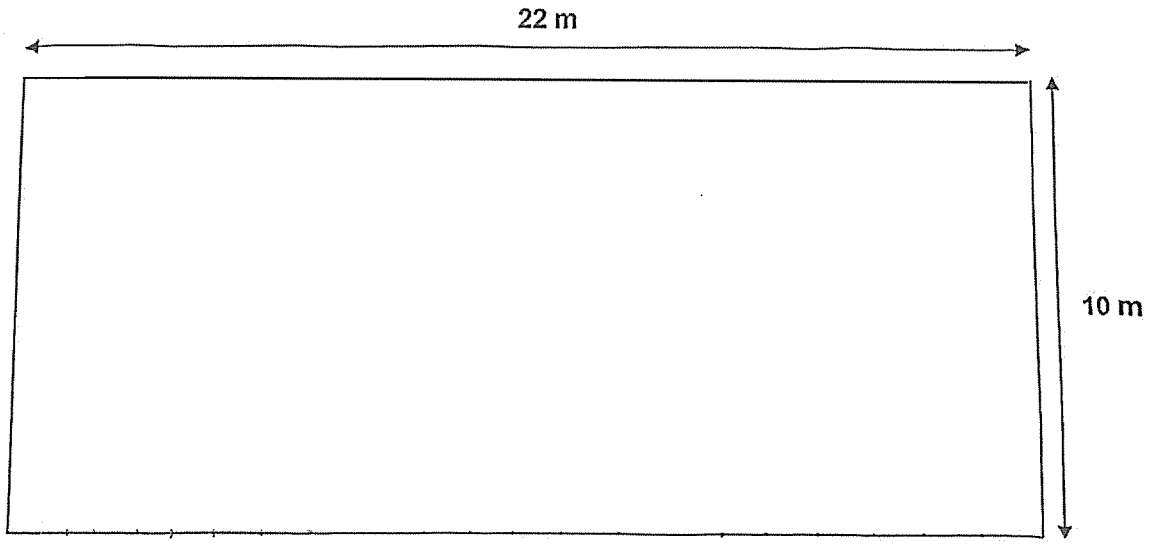
Using the area of the plot of land for each son in Task 1, explore and draw 2 possible ways in which the land could be distributed among the 3 sons.

For each way:

- Draw your plan in the **rectangle provided** on the question paper.
- Label clearly:
  (a) the **owner's name** (eldest son/ second son / youngest son)
  (b) the **dimensions** of each plot of land for each son.

Working Space for Drawing 1

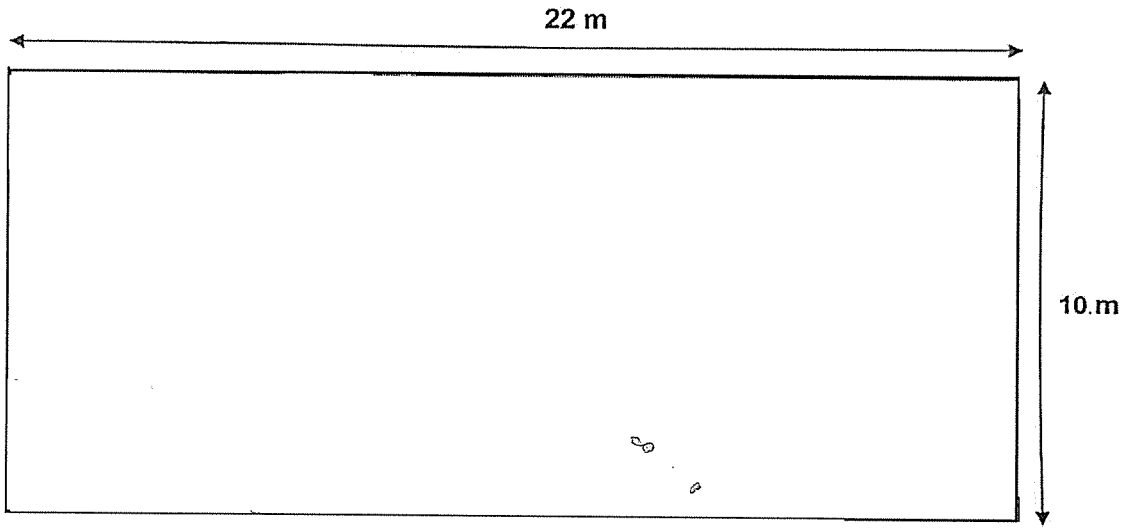
- **Land Distribution – Drawing 1**



Mr Samy's plot of land (Top View)

Working Space for Drawing 2

- **Land Distribution – Drawing 2**



Mr Samy's plot of land (Top View)

From your 2 drawings, which one would the youngest son choose? Give a possible reason for his choice.

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8

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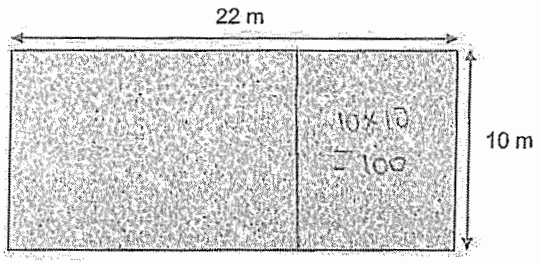

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Task 1: Area of each plot of land

Show 2 different methods to calculate the area of the plot of land for each son.

Use the **working space provided** to:

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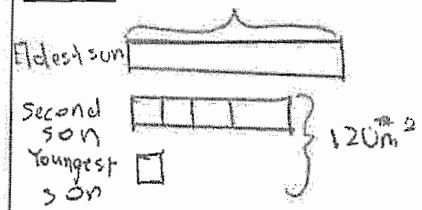
Method 1



Eldest son — u= units

10m x 10m = 100 m²
22m - 10m = 12m
220m² - 100m² = 120m²
4u + 1u = 5u
5u = 120m²
1u = 120m² ÷ 5
= 24m²
4u = 24m² x 4
= 96m²

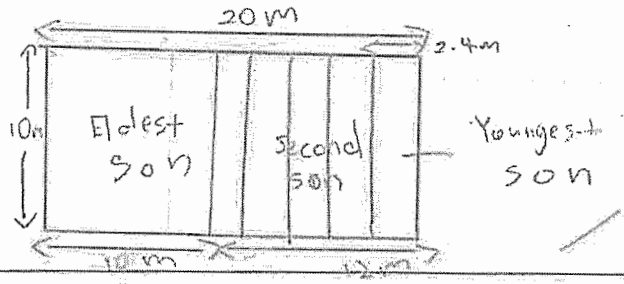
Ans: Eldest son = 100m²
Second son = 96m²
Youngest son = 24m²

ECF
error carried forward

Method 2

Finding the areas using dimensions — 4= unit

10m x 10m = 100 m²
22 m x 10m = 220m²
220m² - 100m² = 120m²
1u+4u = 5u
22m - 10m = 12m
12m ÷ 5 = 2.4m
2.4m x 10m = 24m² Youngest son
(2.4m x 4) x 10 m = 96m² Second son



Area of land each son received (in m²)	
Eldest Son	100 m²
Second Son	96m²
Youngest Son	24m²