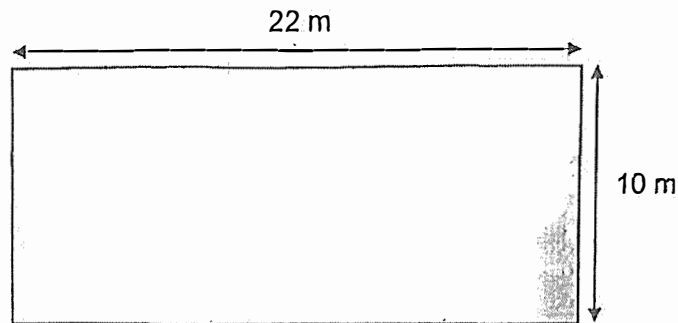


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Name: _____ () Class: 5 ___ Date: _____

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

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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

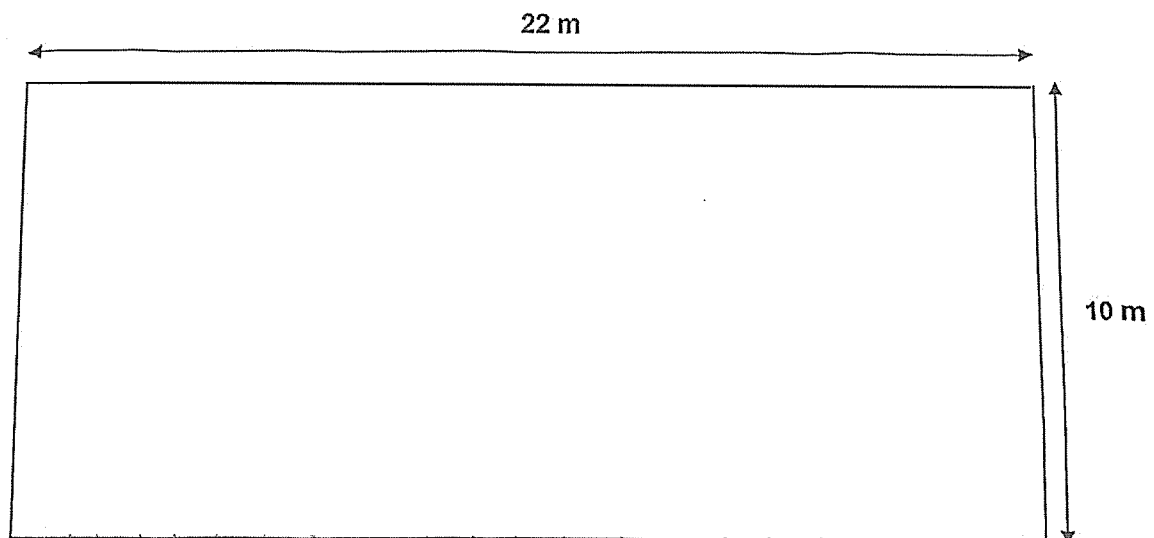
Using the area of the plot of land for each son in Task 1, explore and draw 2 possible ways in which the land could be distributed among the 3 sons.

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**

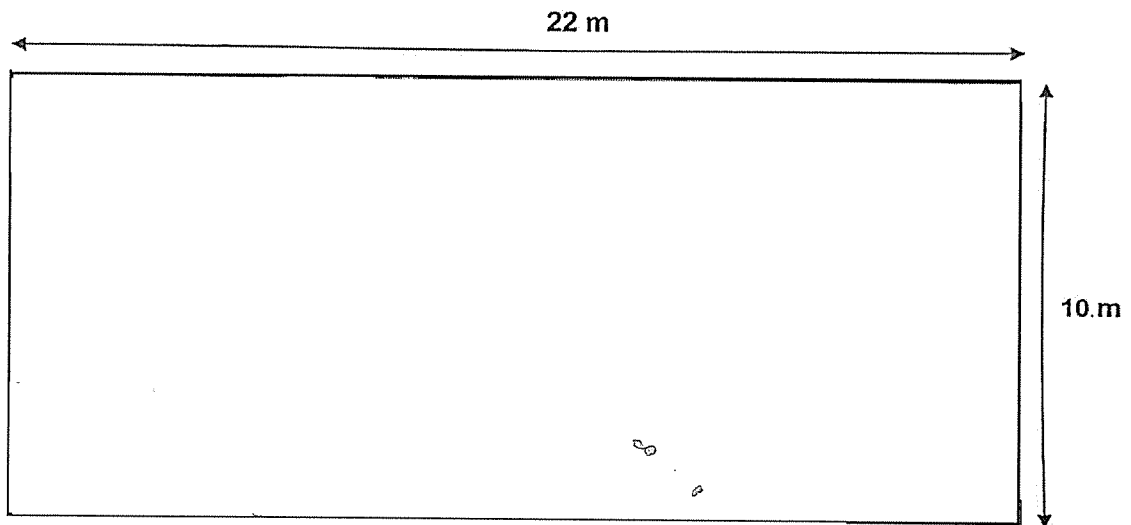


Mr Samy's plot of land (Top View)

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Working Space for Drawing 2

- Land Distribution – Drawing 2

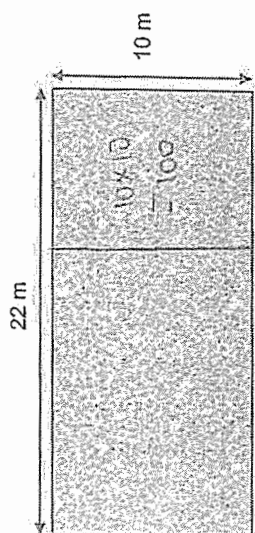


Mr Samy's plot of land (Top View)

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

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.

4u

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

Eldest son

10 x 10 = 100 m²

Second son

10 x 24 = 240 m²

Youngest son

5 x 5 = 25 m²

w = units

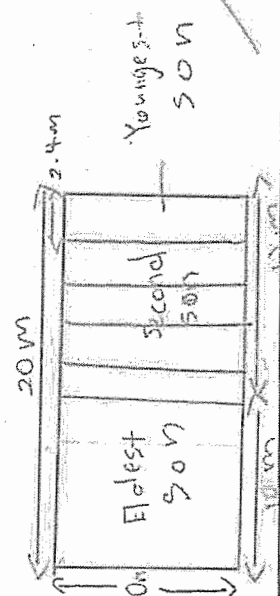
10 x 10 = 100 m²
 2 x 100 m = 200 m²
 200 m² - 100 m² = 100 m²
 100 m² ÷ 4 = 25 m²
 25 m² x 4 = 100 m²

Ans: Eldest son = 100 m²
 Second son = 240 m²
 Youngest son = 25 m²

Method 2

Find the areas using dimensions. u = units

$$\begin{aligned}
 10 \text{ m} \times 10 \text{ m} &= 100 \text{ m}^2 \\
 22 \text{ m} \times 10 \text{ m} &= 220 \text{ m}^2 \\
 220 \text{ m}^2 - 100 \text{ m}^2 &= 120 \text{ m}^2 \\
 120 \text{ m}^2 \div 4 &= 30 \text{ m}^2 \\
 22 \text{ m} - 10 \text{ m} &= 12 \text{ m} \\
 12 \text{ m} \div 4 &= 3 \text{ m} \\
 3 \text{ m} \times 10 \text{ m} &= 30 \text{ m}^2 \\
 (2.4 \text{ m} \times 4) \times 10 \text{ m} &= 96 \text{ m}^2 \\
 &= \text{Second son}
 \end{aligned}$$



Area of land each son received (in m ²)	
Eldest Son	100 m ²
Second Son	96 m ²
Youngest Son	24 m ²

ECF
error carried forward

