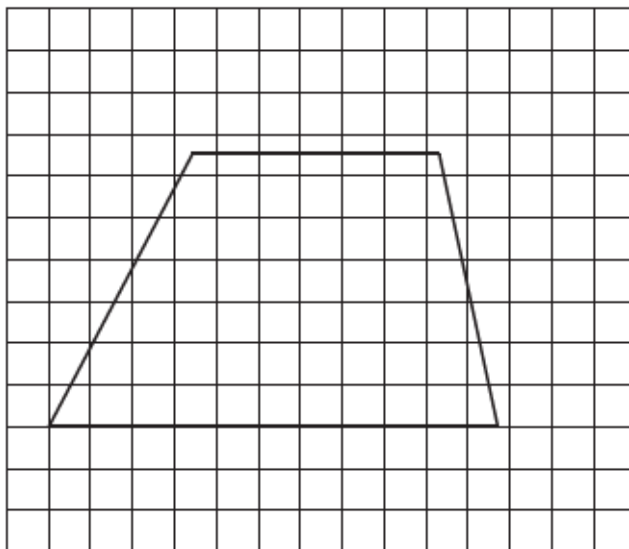


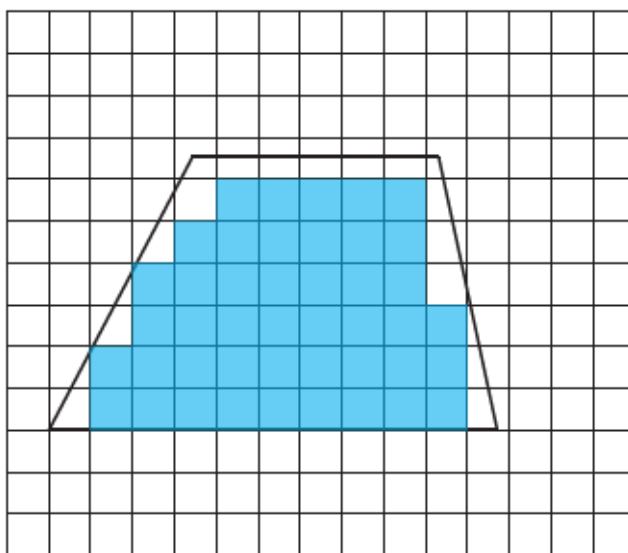
Estimation

1. Estimate the area of the trapezoid, using the underestimation/overestimation method.
Each square represents 1 cm^2 .



Step 1: Underestimate the area of the trapezoid.

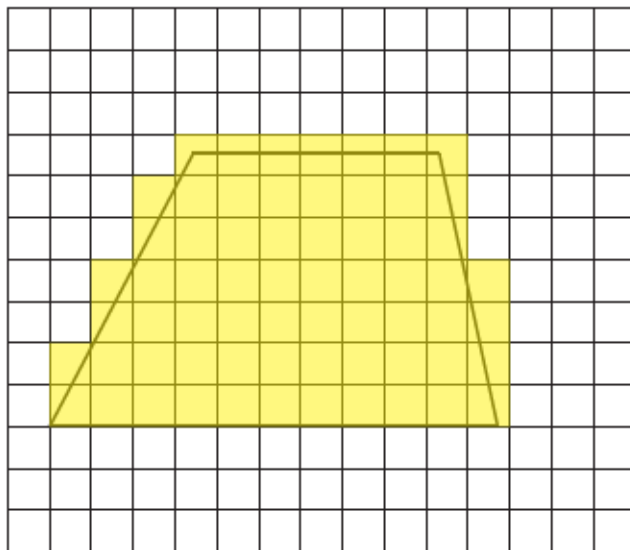
There are 44 full squares inside the trapezoid.



The underestimation is 44 cm^2 .

Step 2: Overestimate the area of the trapezoid.

There are 65 squares touching the trapezoid.



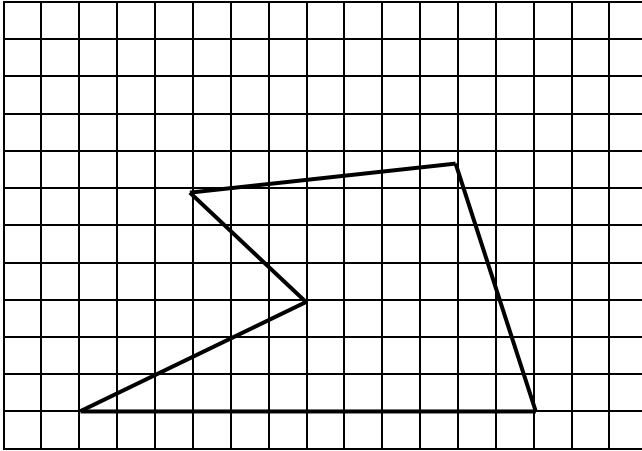
The overestimation is 65 cm^2 .

Step 3: Calculate the average.

$$\begin{aligned} A_{\text{estimate}} &= \frac{(\text{underestimate} + \text{overestimate})}{2} \\ &= \frac{(44 \text{ cm}^2 + 65 \text{ cm}^2)}{2} \\ &= 54.5 \text{ cm}^2 \end{aligned}$$

The area of the trapezoid is about 54.5 cm^2 .

2. Estimate the area of the shape, using the underestimation/overestimation method. Each square represents 1 m^2 .



Step 1: Underestimate the area of the shape.

*There are 36 full squares inside the shape.
The underestimation is 36 m^2 .*

Step 2: Overestimate the area of the shape.

*There are 56 squares touching the shape.
The overestimation is 56 m^2 .*

Step 3: Calculate the average.

$$\begin{aligned} A_{\text{estimate}} &= \frac{(\text{underestimate} + \text{overestimate})}{2} \\ &= \frac{(36 \text{ m}^2 + 56 \text{ m}^2)}{2} \\ &= 46 \text{ m}^2 \end{aligned}$$

The area of the trapezoid is about 46 cm^2 .