

Guided Practice

13.3

NAME _____

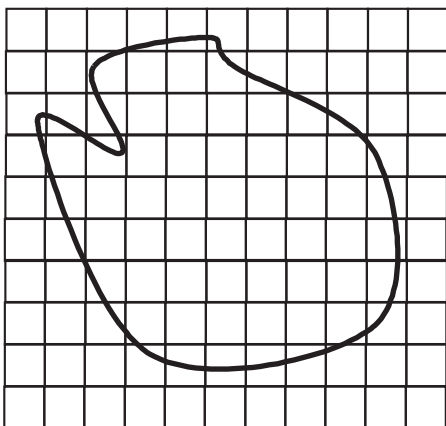
Module 13 Perimeter, Area, and Volume

Lesson 3 Area: Irregular Shapes

Set 1

Estimate the area of the shape.

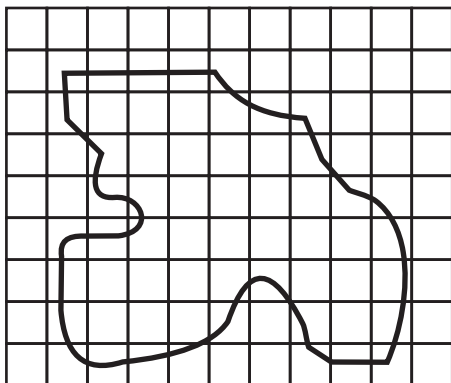
1



Each \square is 1 mi^2 .

$$\begin{aligned}
 A &\approx c + \frac{1}{2}b \\
 &\approx 36 + \frac{1}{2}(31) \\
 &\approx 51.5 \text{ mi}^2
 \end{aligned}$$

2

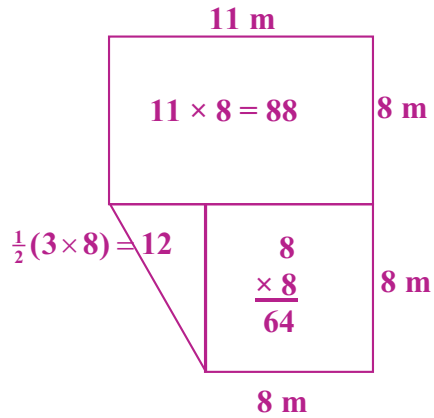


Each \square is 1 km^2 .

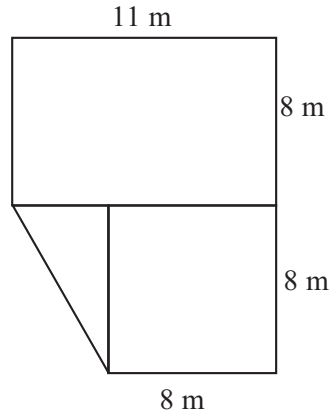
$$\begin{aligned}
 A &\approx c + \frac{1}{2}b \\
 &\approx 25 + \frac{1}{2}(34) \\
 &\approx 42 \text{ km}^2
 \end{aligned}$$

Set 2

- 1 Find the area of the shape.

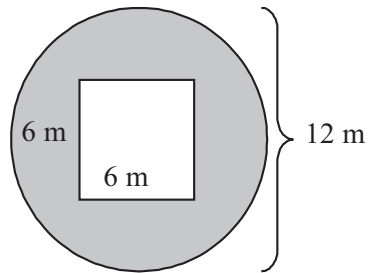


$$\text{Area} = 12 \text{ m}^2 + 88 \text{ m}^2 + 64 \text{ m}^2 = 164 \text{ m}^2$$

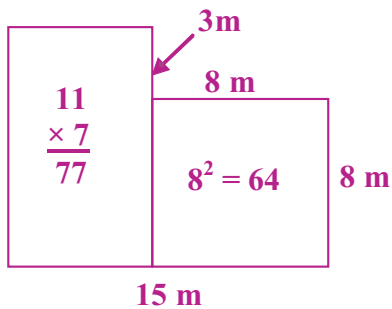


- 2 Estimate the gray area.

$$\begin{aligned} A &\approx 3.14(6^2) - (6)(6) \\ &\approx 113.04 - 36 \\ &\approx 77.04 \text{ m}^2 \end{aligned}$$



- 3 Find the area of the shape.



$$\text{Total area} = 77 \text{ m}^2 + 64 \text{ m}^2 = 141 \text{ m}^2$$

