



THIRD SPACE
LEARNING

Perimeter and Area

To be able to find the area of an
irregular shape



To be able to find the area of an irregular shape

Key Vocabulary:

Approximation/ approximate
Area
Irregular shape

Sentence Stems:

The area is the size of the surface of a 2-D shape.

Area is measured in units squared or unit^2 .

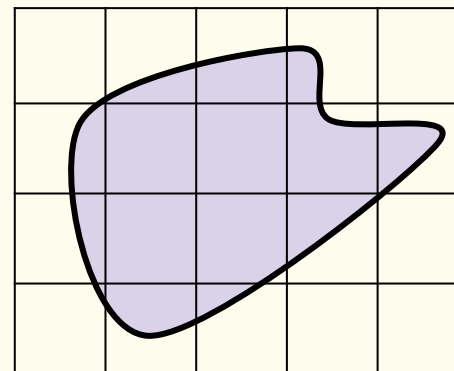


To be able to find the area of an irregular shape

Hinge Question:

Each square = 1cm^2

What is most appropriate approximate area for this shape?



A 20cm^2

C 6cm^2

B 3cm^2

D 14cm^2



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Success Criteria

- I can explain how to count squares to find the area of an irregular shape
- I can explain why we say the answer is an approximate answer
- I can draw irregular shapes of a given area



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In focus:

Which is the odd one out?

Explain your answer.

A			

B			

C	

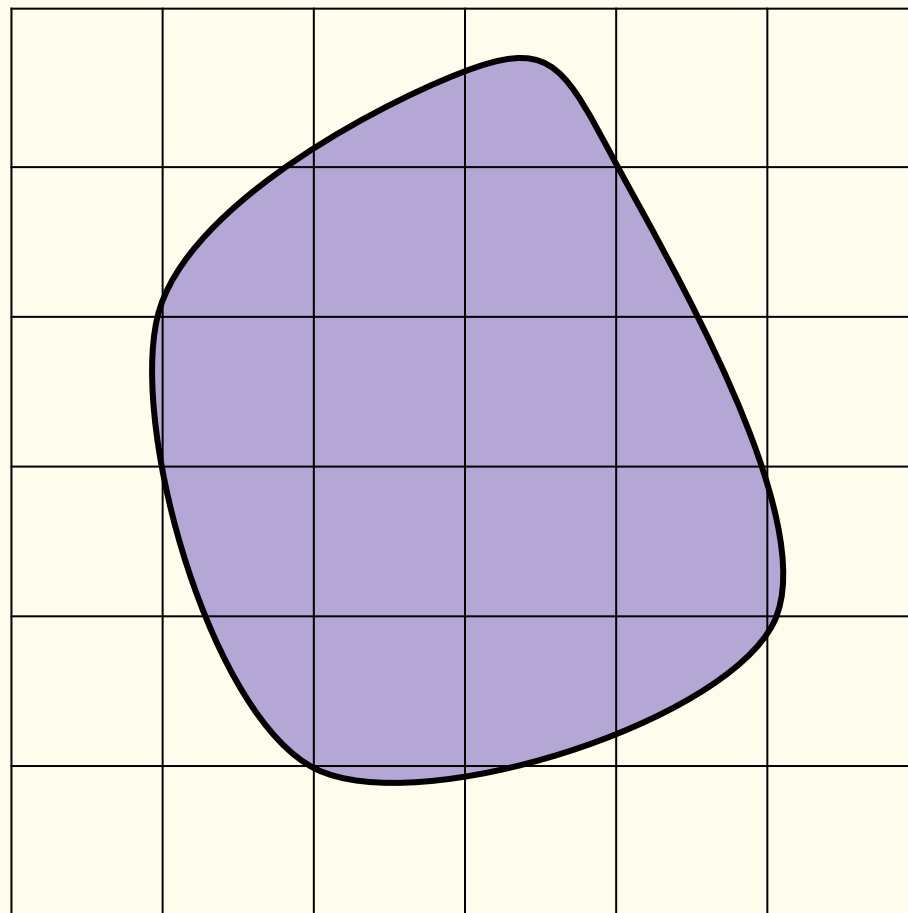
D			



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Explain how you think would find the area of this irregular shape.

Each square = 1 cm^2



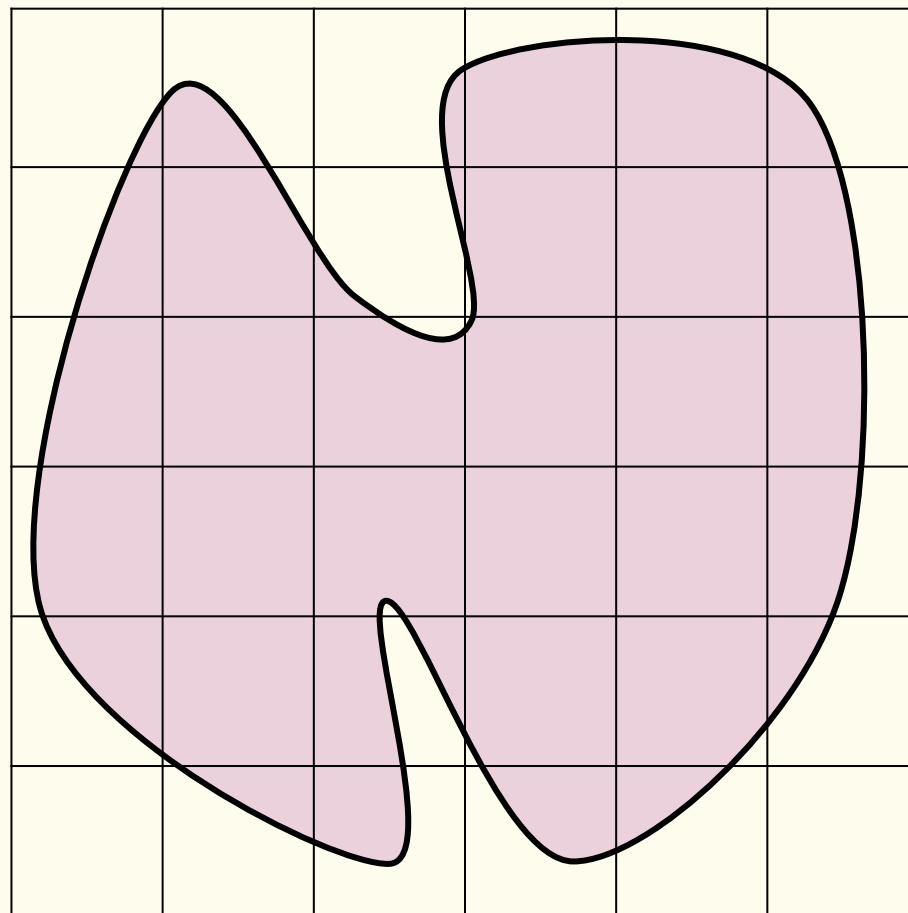


To be able to find the area of an irregular shape

Guided Practice:

Approximate the area of the irregular shape.

Each square = 1 cm^2



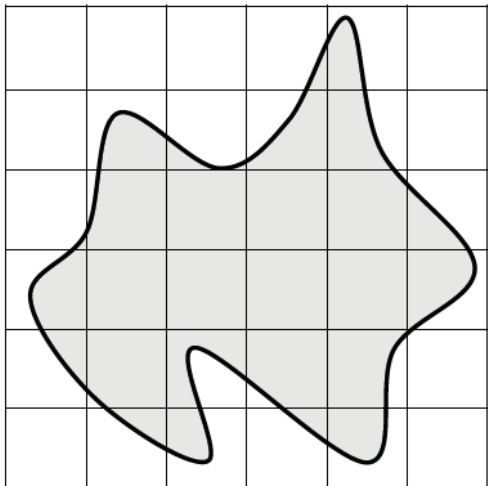


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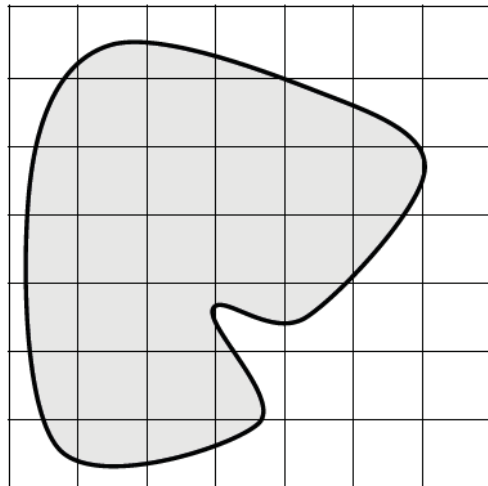
Independent Practice:

1. Approximate the area of the irregular shape. Each square = 1cm^2

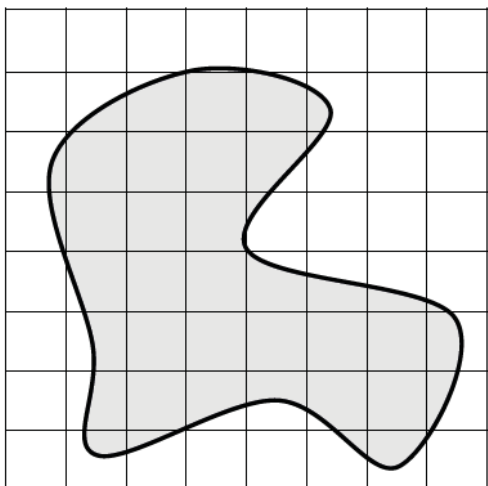
a.



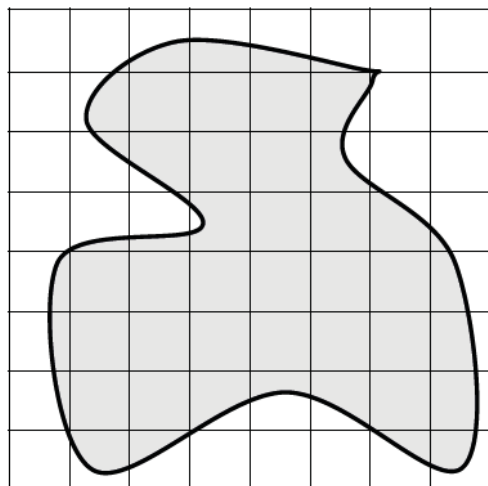
b.



c.



d.



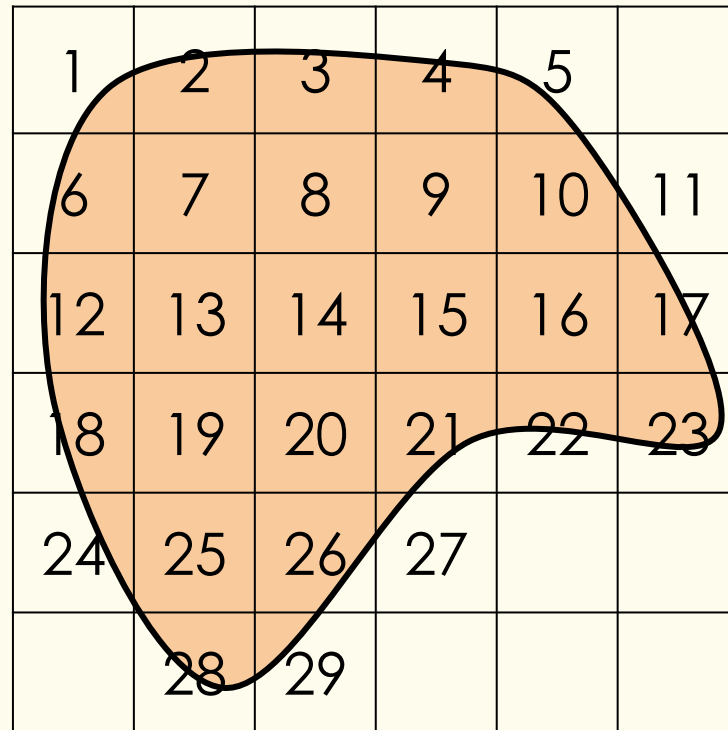
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Guided Practice:

Each square = 1cm^2

The astronaut says the area of the shape is 29cm^2 .

Do you agree?



The astronaut is wrong.

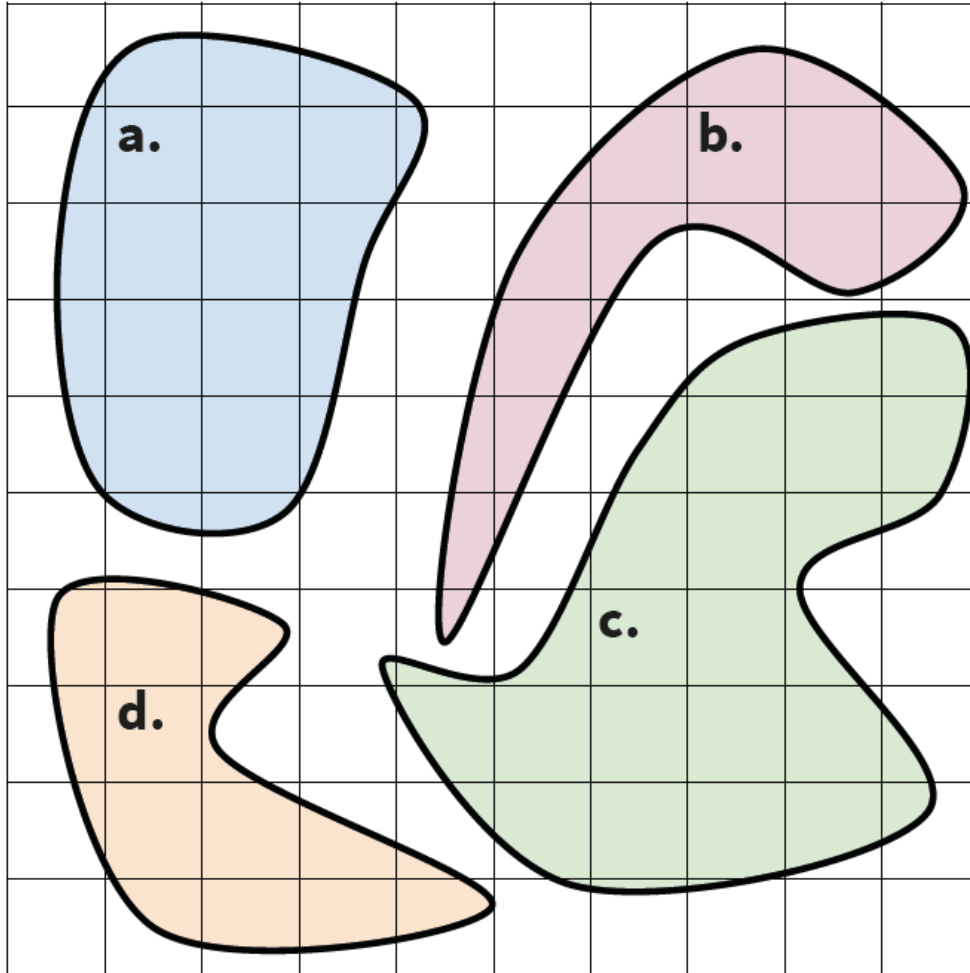
She has counted each square that has been touched by the irregular shape.

Answers

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Independent Practice:

2. Find the approximate area of each shape. Each square is 5m^2 .



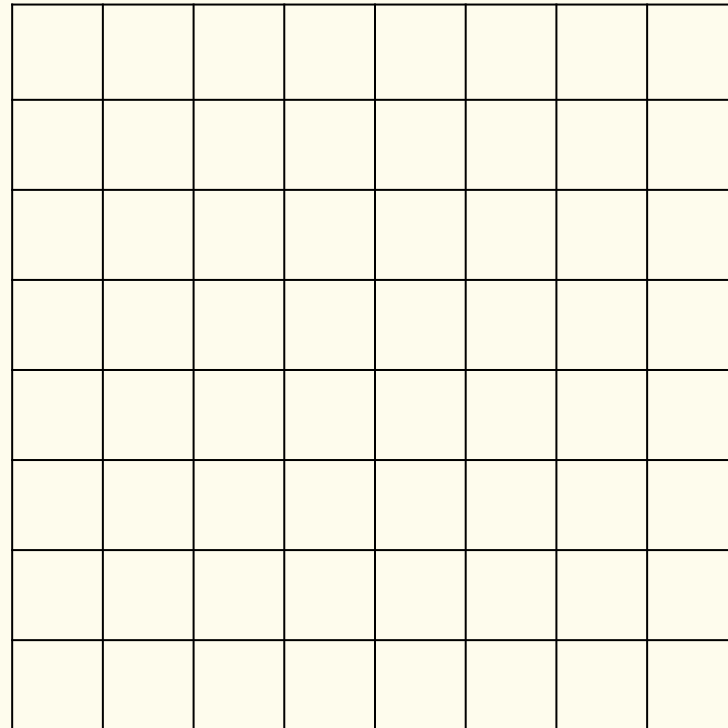


To be able to find the area of an irregular shape

Guided Practice:

On squared paper, try to draw a circle with an area of approximately 30cm^2 .

Assume each square is 1cm^2 .



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Independent Practice:

- 3.** The astronauts are designing their new home base on Mars. Using squared paper, create a map based on their requirements. Each square should represent 5m^2 .
- Only the launchpad needs to be together. All other parts can be spread out if you want, as long as they total the approximate area given.
- Rocket launch pad - circular area approximately 100m^2
 - Area for crops - total of approximately 54m^2
 - Bedrooms for each astronaut (5 in total) - approximately 12m^2 per person
 - Kitchen area - approximately 29m^2
 - Living room/ dining room/ study area - approximately 32m^2
 - Scientific research area - approximately 50m^2
 - The areas will need corridors to connect them. Calculate the total area for the corridors you create.



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Light Bulb Challenge

Explain why, when finding the area of irregular shapes, we use approximate answers.

We use approximate answers as the shapes are not rectilinear and therefore do not take up whole squares on a grid.

Answers