## YR5 PROGRESSION IN MASTERY LESSON PACK - AREA OF IRREGULAR SHAPES

## FLUENCY 1

Each square is $\mathbf{1 c m}{ }^{2}$. Estimate the area of each object.


There are $\qquad$ whole squares. There are $\qquad$ part squares.

The $\qquad$ is approximately $\qquad$ $\mathrm{cm}^{2}$.

## FLUENCY 2

Each of the squares is $1 \mathrm{~cm}^{2}$. Estimate the area of each splatter then order them from smallest to largest.


## FLUENCY 3

Each square is $1 \mathrm{~cm}^{2}$.
Draw a shape with an area of $\mathbf{2 3 . 5} \mathbf{c m}^{\mathbf{2}}$.


## FLUENCY 4

Each square is $4 \mathrm{~cm}^{2}$.
What is the area of the treasure chest?


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## REASONING 1

Each square on Darcey's grid is $\mathbf{1 c m}{ }^{2}$.


Is Darcey's statement accurate? Explain why.

## REASONING 2

Alfie has been learning to find the area of shapes.


Do you agree with Alfie? Explain your reasoning!

## REASONING 3

Ranjit and Caleb have estimated the area of this shape.
Each square is $1 \mathrm{~cm}^{2}$.


Who is correct? Convince me.

## REASONING 4

Which planet has a larger area? Explain why.


Each square $=3 \mathrm{~km}^{\mathbf{2}}$


Each square $=\mathbf{4 m} \mathbf{m}^{2}$
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## YR5 PROGRESSION IN MASTERY LESSON PACK - AREA OF IRREGULAR SHAPES

## PROBLEM SOLVING 1

Construct your own theme park on the grid.
Each square represents $\mathbf{4 m}^{\mathbf{2}}$.

The theme park must contain the following features and be of the given measure:

A roller coaster with a total area of $18 \mathrm{~m}^{2}$ Three forests with a total area of $\mathbf{2 7} \mathbf{m}^{\mathbf{2}}$ River rapids with a total area of $19 \mathrm{~m}^{2}$. A picnic area with a total area of $\mathbf{1 2 m}{ }^{\mathbf{2}}$ Two more features of your choice.


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