# AREA – DAY 2

## LO:I can estimate the area of irregular shapes

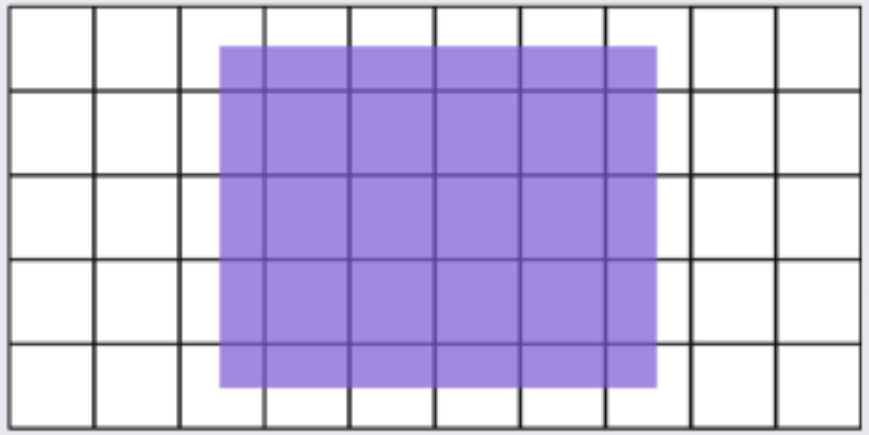
An irregular shape has sides and angles of any length and size.

# Fluency

LO:I can estimate the area of irregular shapes

## Starter:

James says, "If each white square has an area of 1 $cm^2$, then the purple rectangle has an area of 30 $cm^2$."



Do you agree?
Explain your answer.

# Fluency

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## Starter:

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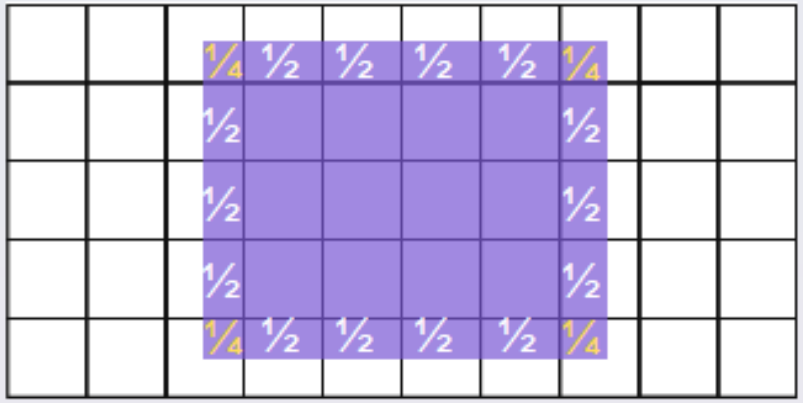
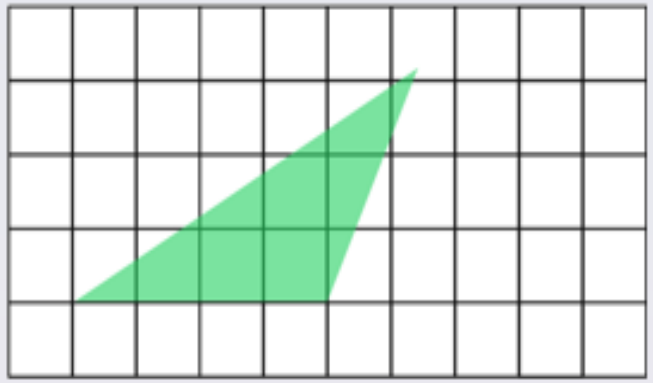


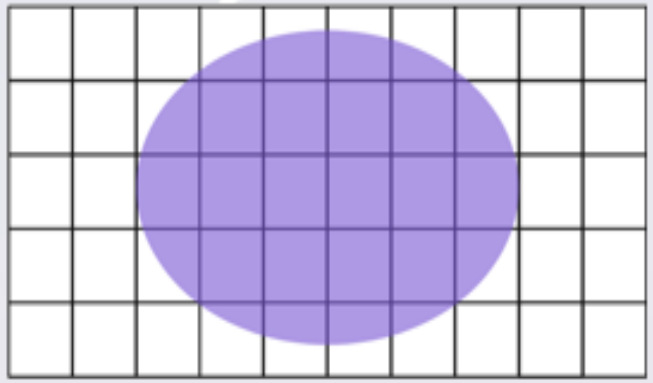

Although there is at least some of the purple rectangle within 30 of the white squares, many of them are not complete squares. In fact, a better estimate is 20 $cm^2$.

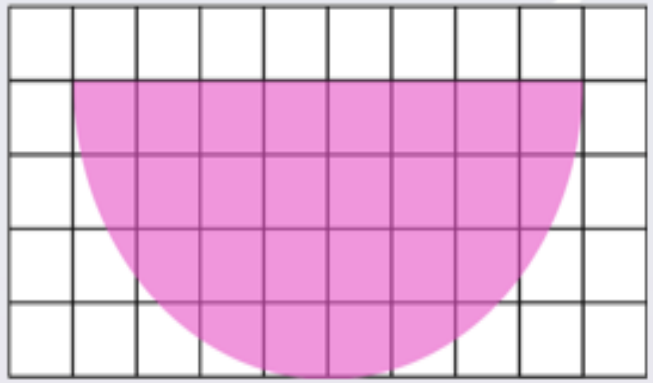
# Fluency

LO:I can estimate the area of irregular shapes

If each white square has an area equal to 1 $cm^2$, what are the approximate areas for the shapes below?







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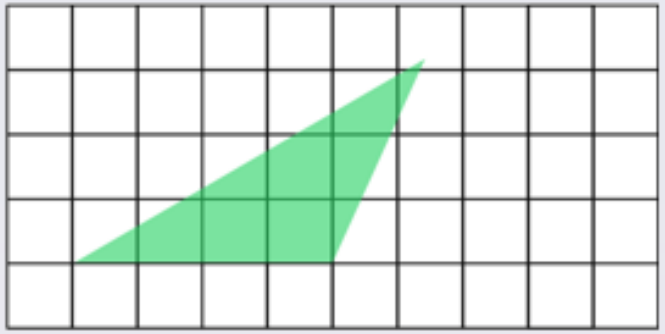
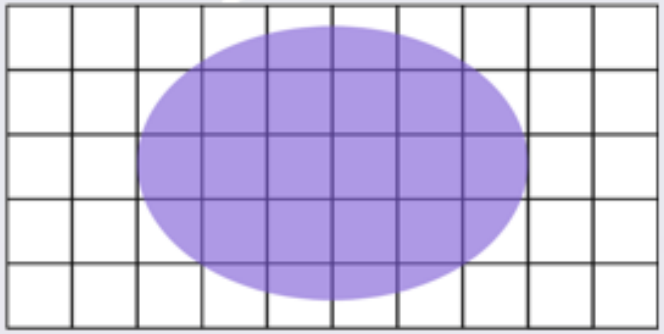
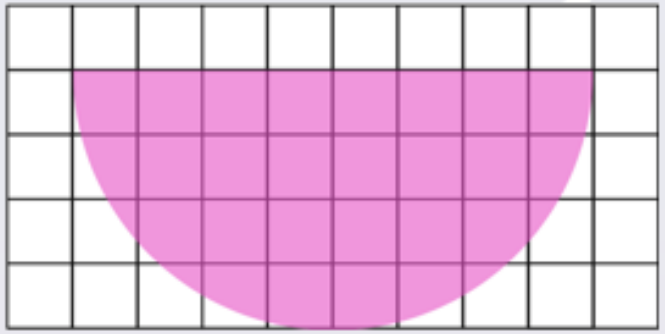


approx. 6 – 7 $cm^2$



approx. 16 – 17 $cm^2$

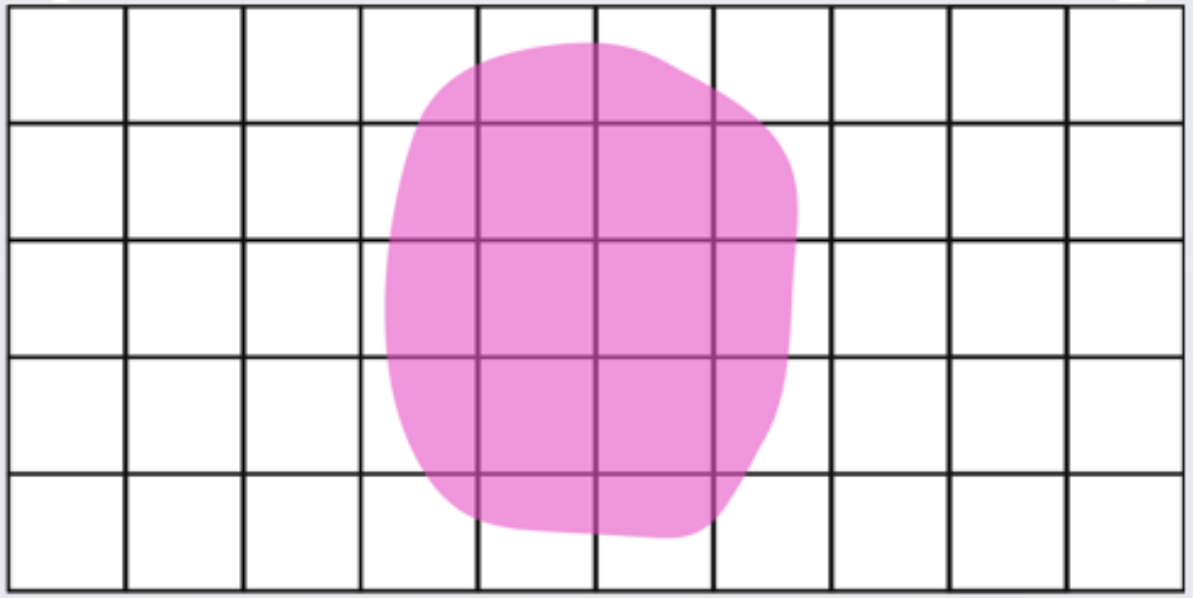


approx. 22 – 24 $cm^2$

# Fluency

LO:I can estimate the area of irregular shapes

If each white square has an area equal to 1 $cm^2$, what is the approximate area for the stain on the grids below?



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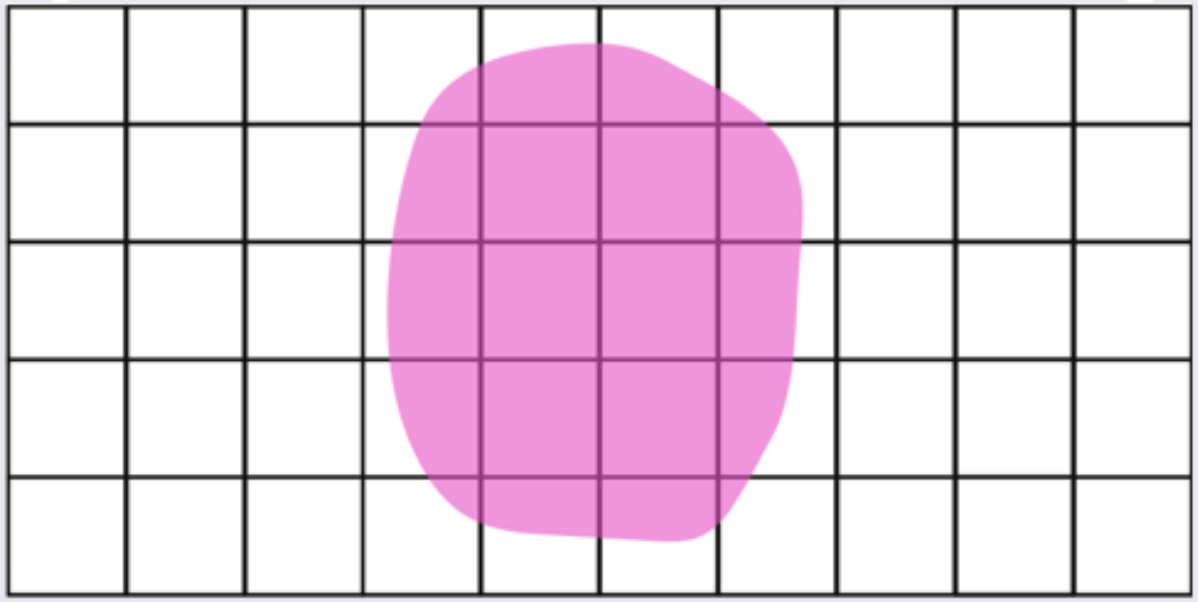

approx. 10 $cm^2$

# Fluency

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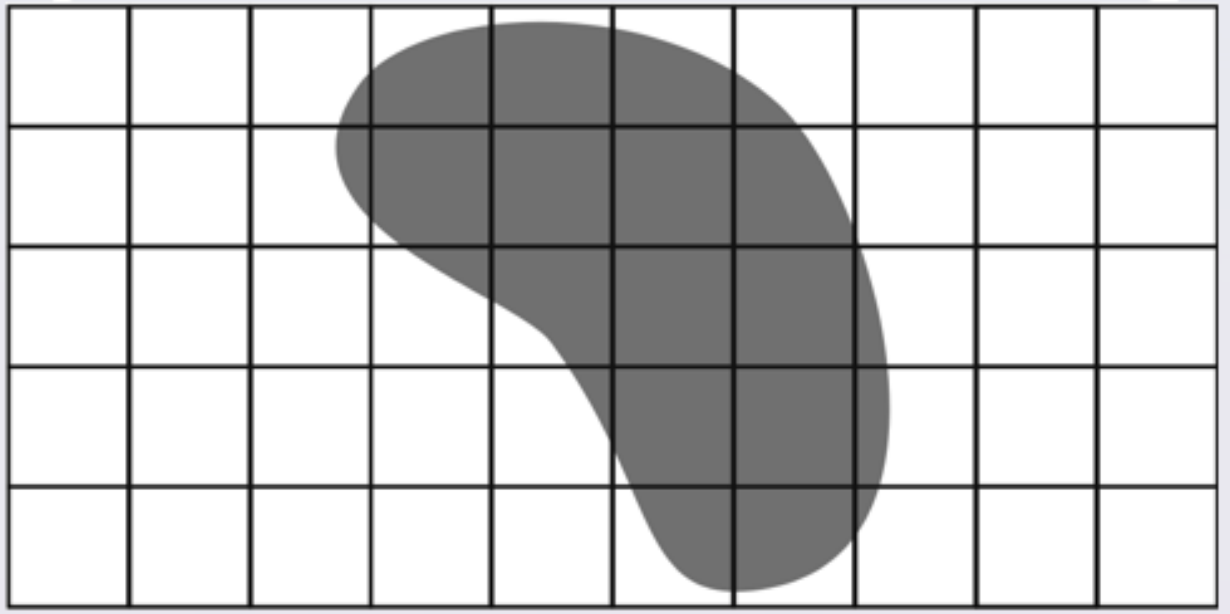

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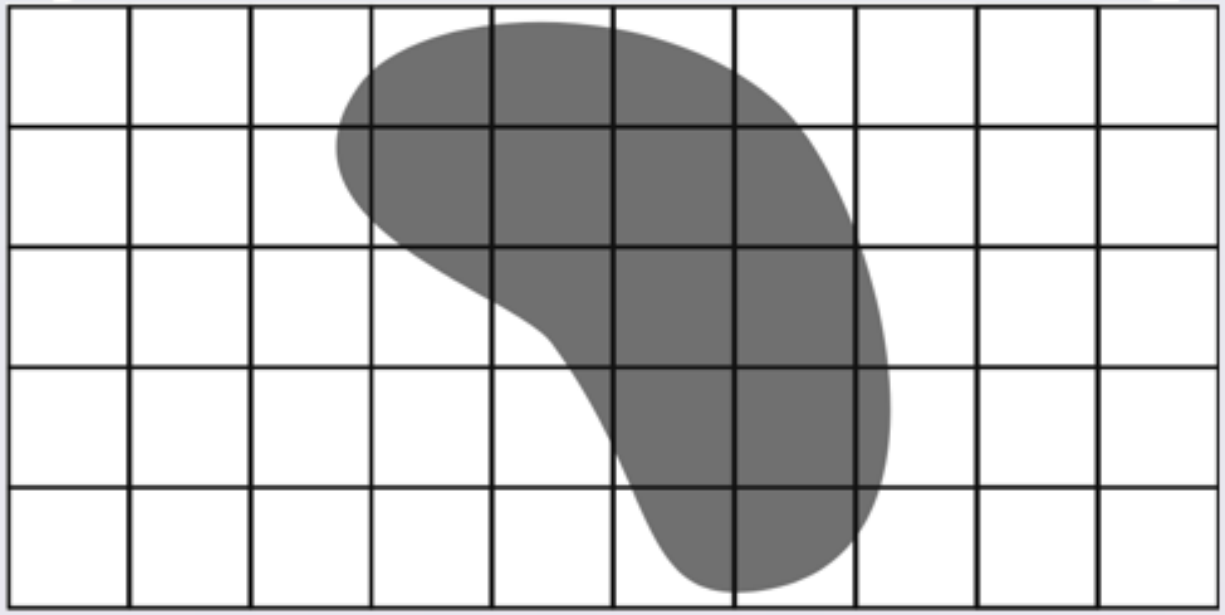
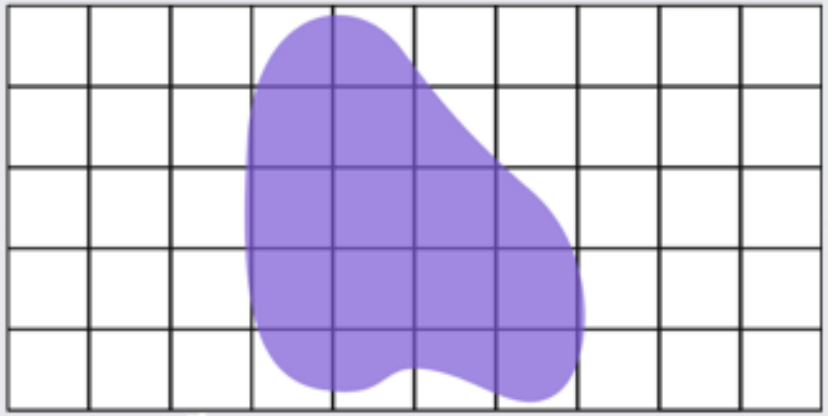


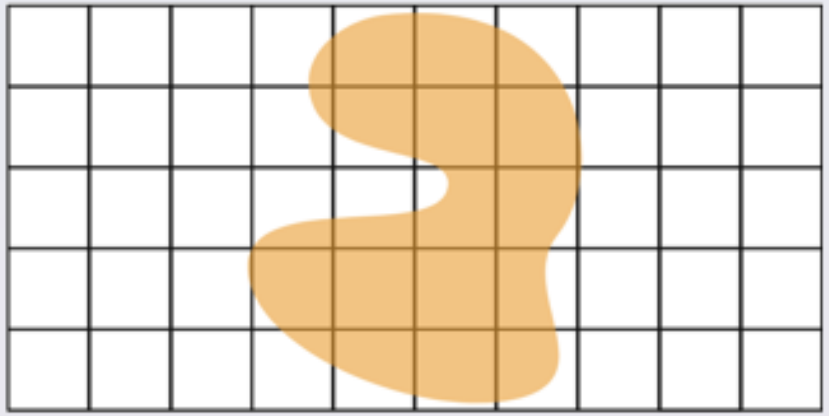
approx. 11 – 12 $cm^2$

# Fluency

LO:I can estimate the area of irregular shapes

If each white square has an area equal to 1 $cm^2$, what are the approximate areas for the stains on the grids below?





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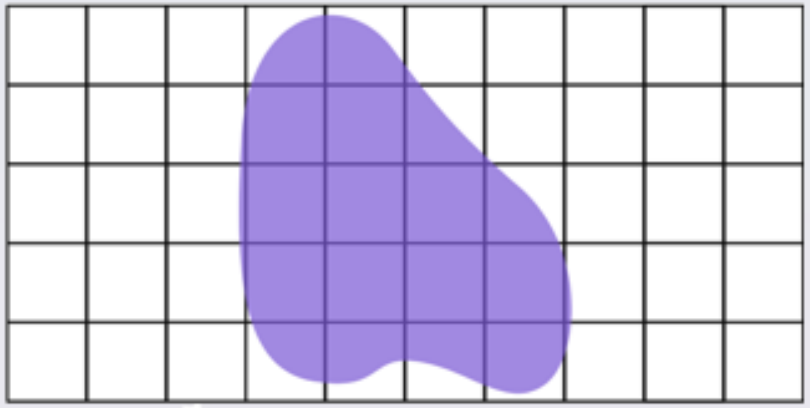
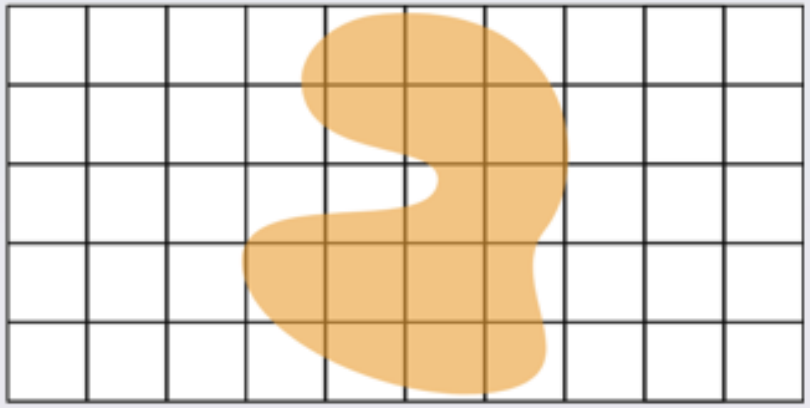


approx. 12 - 13 $cm^2$



approx. 10 $cm^2$

# Problem Solving

LO:I can estimate the area of irregular shapes

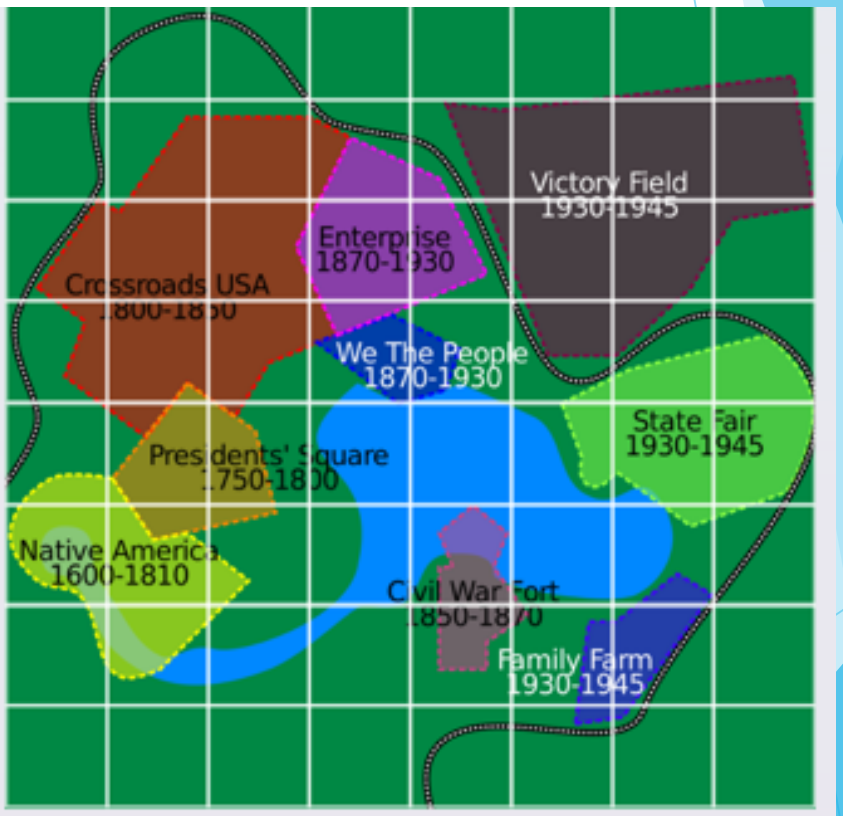
If each white square within the Theme Park map covers 100 $m^2$, estimate:

a) the area Presidents' Square covers...

b) the area State Fair covers...

c) which three sections cover the least area...

d) which is the largest section and by how much it is larger than the second largest section...



# Problem Solving

LO:I can estimate the area of irregular shapes

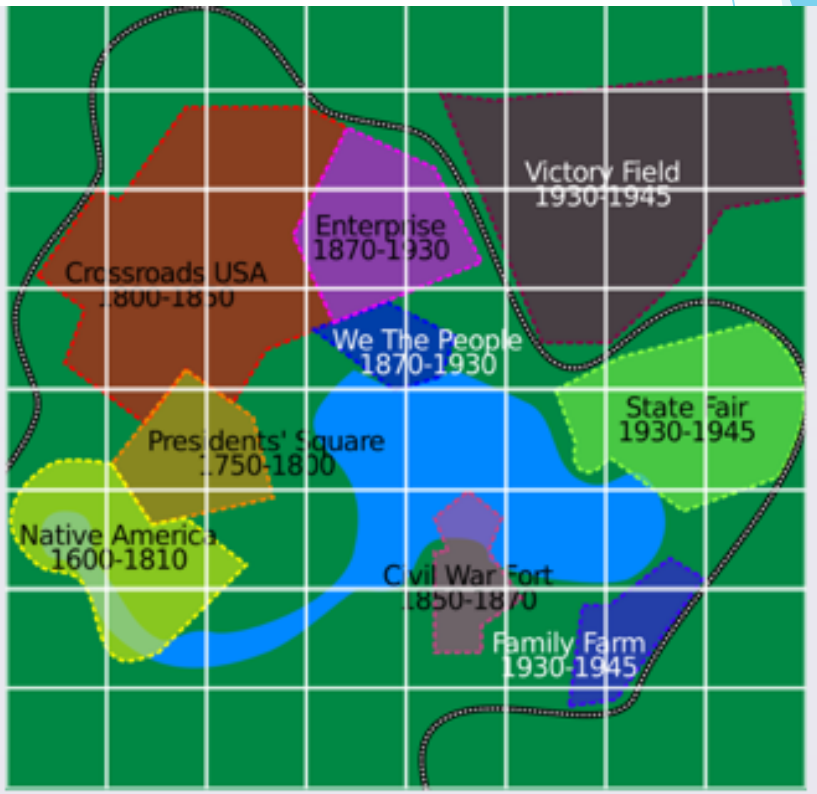
If each white square within the Theme Park map covers 100 $m^2$, estimate:

a) the area Presidents' Square covers...
approximately 200 $m^2$

b) the area State Fair covers...
approximately 300 – 350 $m^2$

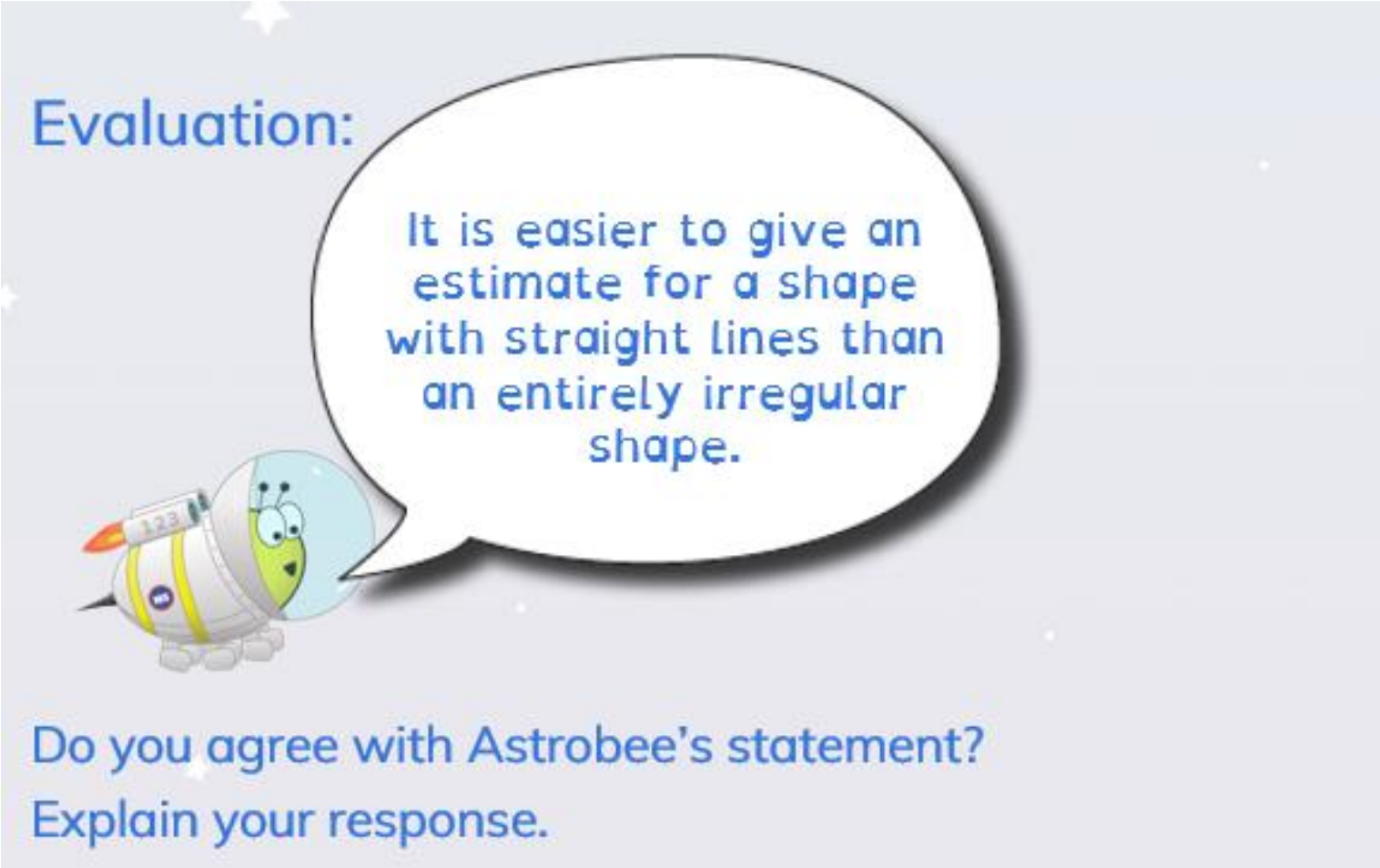
c) which three sections cover the least area...
We The People, Family Farm and Civil War

d) which is the largest section and by how much it is larger than the second largest section...
Crossroads USA is approximately 500 $m^2$
Victory Field is closer to approx. 550 – 600 $m^2$



# Reasoning

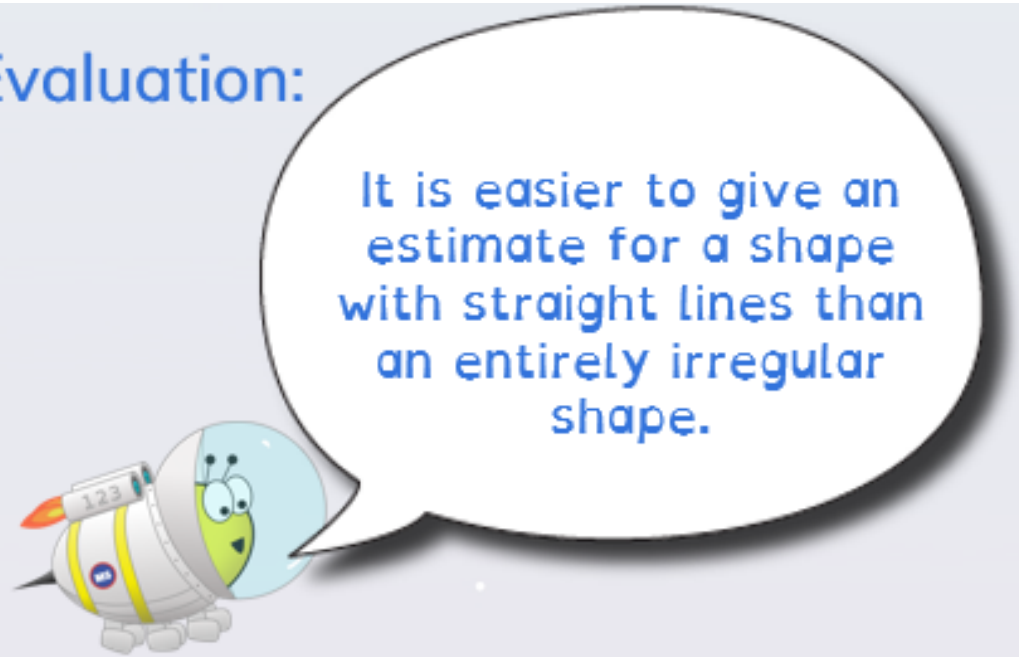
LO:I can estimate the area of irregular shapes



# Reasoning

LO:I can estimate the area of irregular shapes

## Evaluation:




I would have to agree with Astrobee – when trying to make an estimate of the fraction of a square that is being covered, it is easier to make that call when the segment is a straight-line segment rather than a curved or irregular line.

LO:I can estimate the area of irregular shapes

# Your Task…

Choose which of the following tasks you wish to complete.
Each group's work will appear on Herons Home Learning page (week 4)