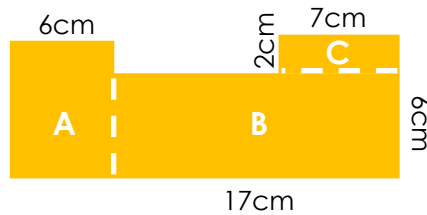
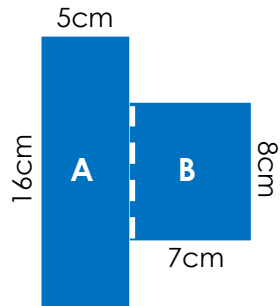




FLUENCY 1

Use the stem sentences to help you find the area of the following shapes:



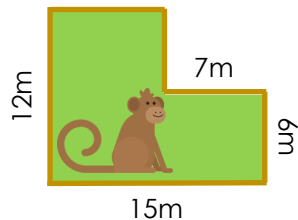
First, I need to split the shape into a _____ or _____.

Area = _____ x _____

_____ each rectangle's area together to find the total area.

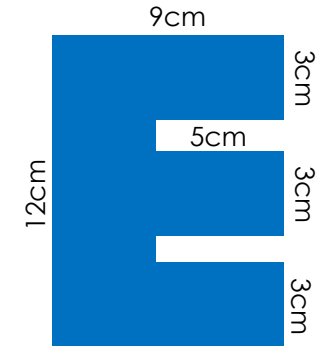
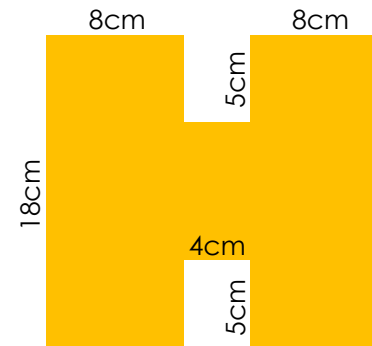
FLUENCY 2

Below shows the shape and measurements of the monkey pen at the zoo. Can you calculate the total area?



FLUENCY 3

Which letter has the greatest area?



FLUENCY 4

The total area of a theme park is 52km². It is a compound shape.



Draw one possible shape the theme park could be.



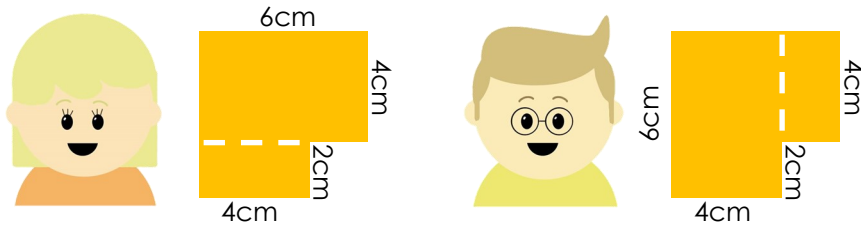


YR5 PROGRESSION IN MASTERY LESSON PACK - AREA OF COMPOUND SHAPES

REASONING 1

Alfie and Jane have calculated the area of this compound shape.

They have used slightly different methods.



Who is correct? Explain your reasoning!

REASONING 2

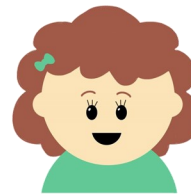
Always, Sometimes or Never True?

Two compound shapes with the same perimeter will have the same area.

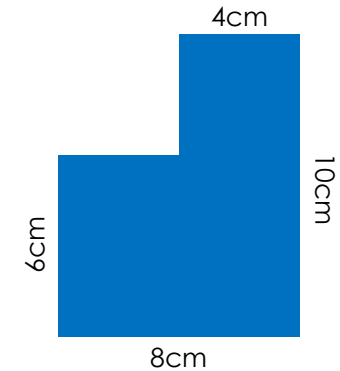
Prove your answer with examples!

REASONING 3

Darcey has calculated the area of this compound shape.



$$\begin{aligned} 6 \times 8 &= 48 \\ 4 \times 10 &= 40 \\ 48 + 40 &= \\ 88\text{cm}^2 \end{aligned}$$

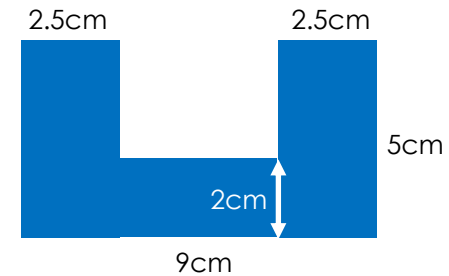
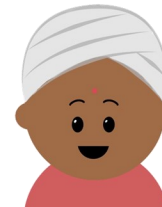


Is she correct? Explain your reasoning!

REASONING 4

Ranjit says:

“To find the total area, I can do $(9 \times 5) - (4 \times 3) = 33\text{cm}^2$.”

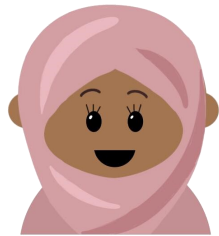


Do you agree? Prove it.

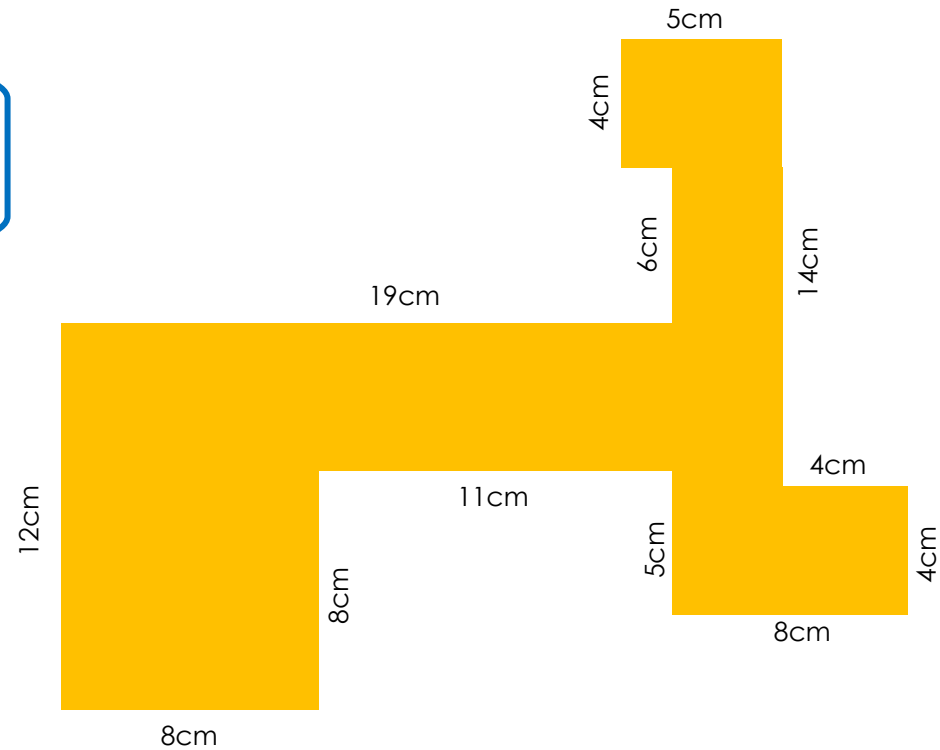




PROBLEM SOLVING 1



No matter how I split this shape into smaller rectangles, the area will remain the same.



Investigate whether Asha's statement is true by splitting the shape as many different ways as you can and calculating the area.

