Mathematics

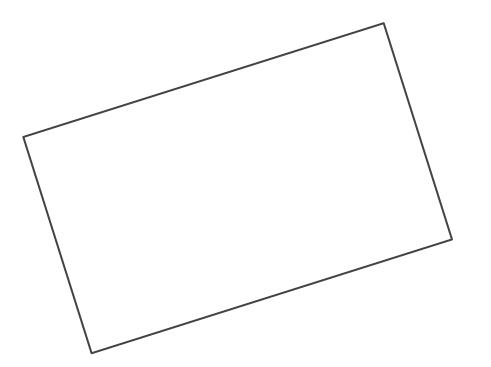
Rectilinear shapes Lesson 5 of 8

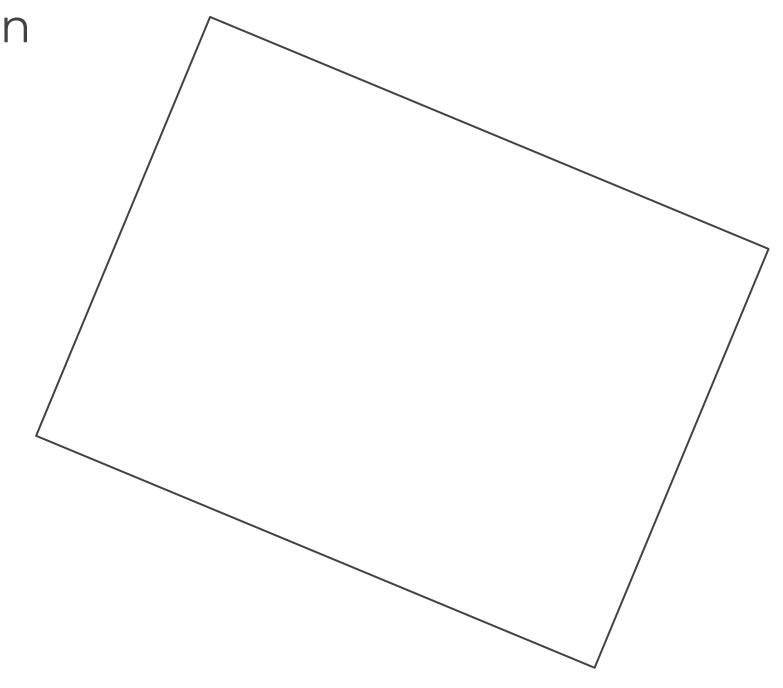
Miss Kidd-Rossiter



Try this

How many different compound shapes can you make by joining the sides of the two rectangles below?



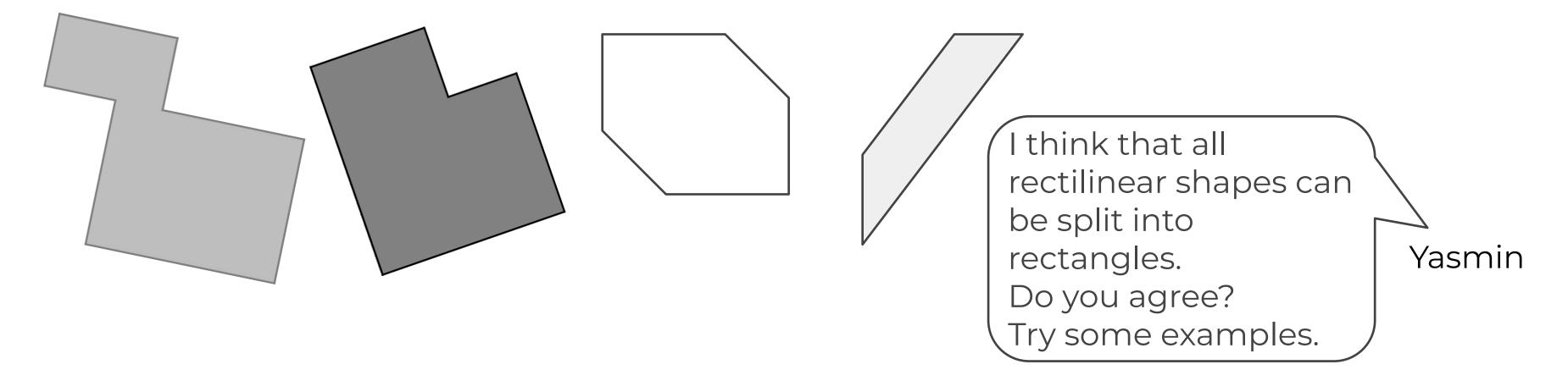




Connect

In a rectilinear shapes, all sides meet at right angles.

Which of the following shapes could be described as rectilinear?

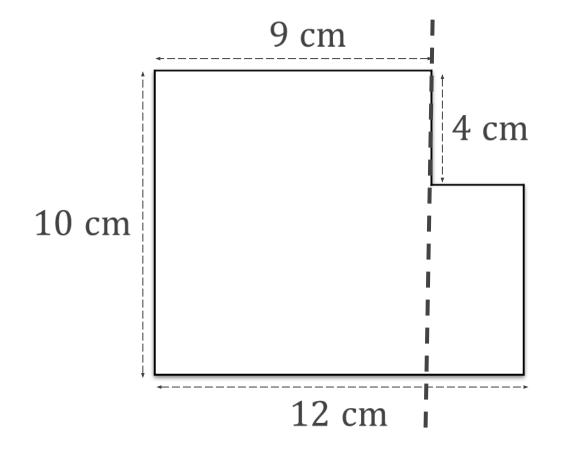




Connect

The area of the hexagon was calculated by splitting it into rectangles.

Explain how the calculation relates to the area.



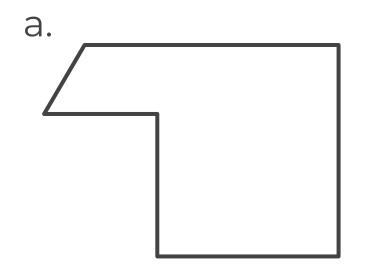
$$10 \times 9 + 6 \times 3$$

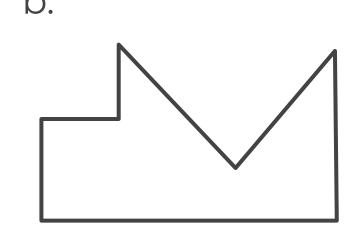
What splitting strategy could have led to the following calculations?

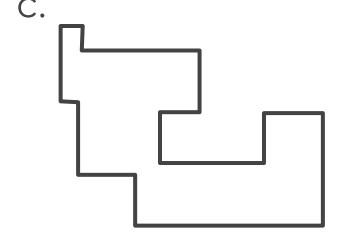


Independent task

1. Which of these shapes is rectilinear?



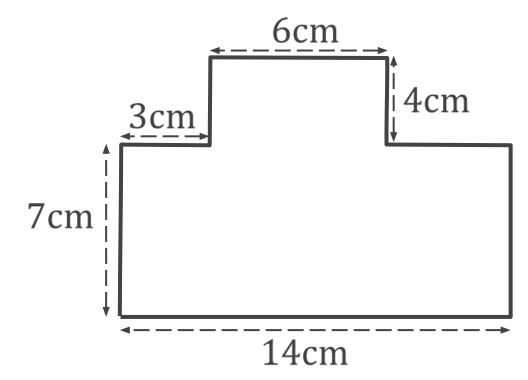






Independent task

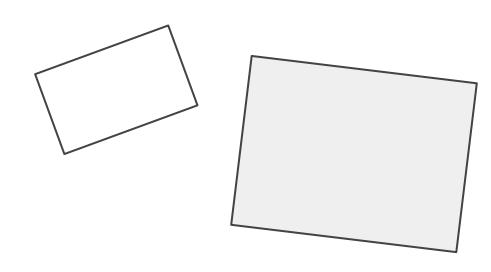
2. Complete the diagram with all dimensions and work out the area and perimeter of this shape.

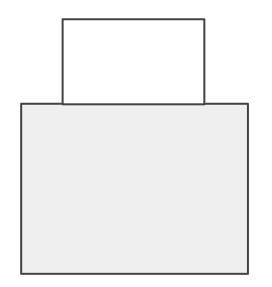


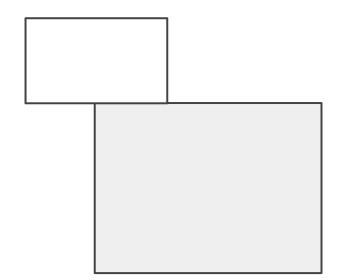


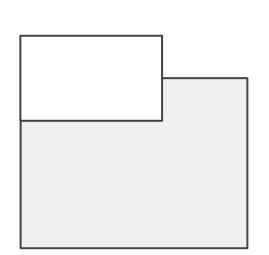
Explore

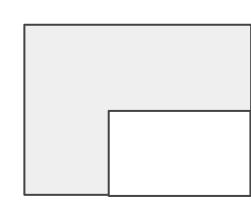
Two rectangles with a known area and perimeter are used to construct rectilinear compound shapes.











For which shapes do you know the area?

Can you find the perimeter of any of the shapes?

