Mathematics

# Cutting and combining shapes Lesson 3 of 8 

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## Try this

Combine two or more of these hexagons to form a rectangle.
How many solutions can you find?


Connect


Find the area and the perimeter of each shape.
Form a compound shape by combining the hexagons (A) and (B). What is the area and perimeter of the compound shape?

## Independent task

1. Find the area and perimeter of these shapes.

2. Combine the two shapes in question 1 to make a compound shape with area 18 units squared and perimeter 22 units.

## Independent task

3. The diagram shows two heptagons.

Each has area $22 \mathrm{~cm}^{2}$ and perimeter 24 cm .
What is the area and perimeter of the compound shape?


## Explore

Explain why Antoni's perimeter calculation is correct.

$P=18$ units

$P=12$ units


$$
P=28 \text { units }
$$

What perimeters are possible by combining the two hexagons?

