# Surface Area of Cuboids Downloadable Resource 

Mrs Buckmire

## Try this

How many ways can these groups of rectangles be arranged to make the net of a cuboid?

What would the total areas of the nets be?


## Try this (Support)

How many ways can these groups of rectangles be arranged to make the net of a cuboid? What would the total areas of the nets be?


## Independent task

1. Given this net drawn on a centimetre grid what is the surface area of the cuboid it constructs?

2. Work out the surface area of each shape: Which one has the greater surface area? Which one has the greater volume?
a)

b)

3. The volume of this cuboid is $70 \mathrm{~m}^{3}$. Every side length is a prime number. The base has an area of $35 \mathrm{~m}^{2}$.
What is the surface area?


## Explore

Each student is thinking of a cuboid with integer dimensions.


- Give the dimensions of a cuboid that satisfies exactly one of the statements and does NOT satisfy the other two statements.
- Give the dimensions of a cuboid that satisfies exactly two of the three statements.
- Give the dimensions of a cuboid that satisfies ALL three statements.


Explore


