Mathematics

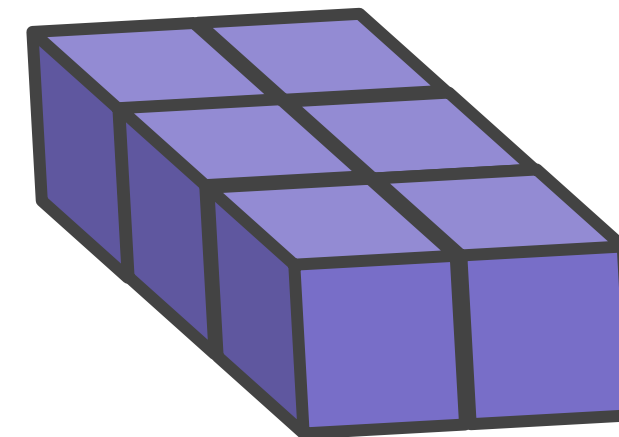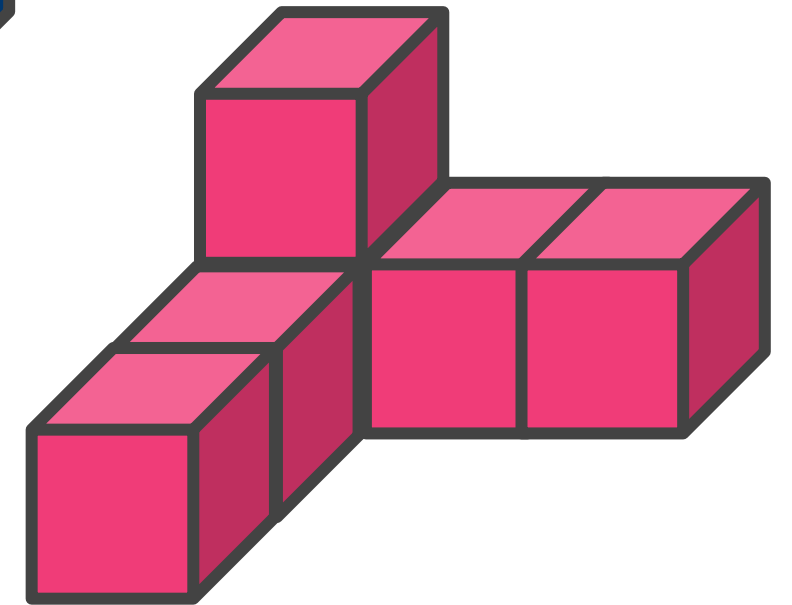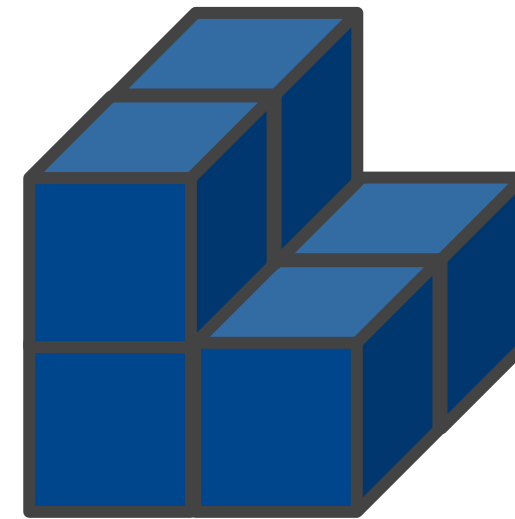# Introduction to Surface Area Downloadable Resource
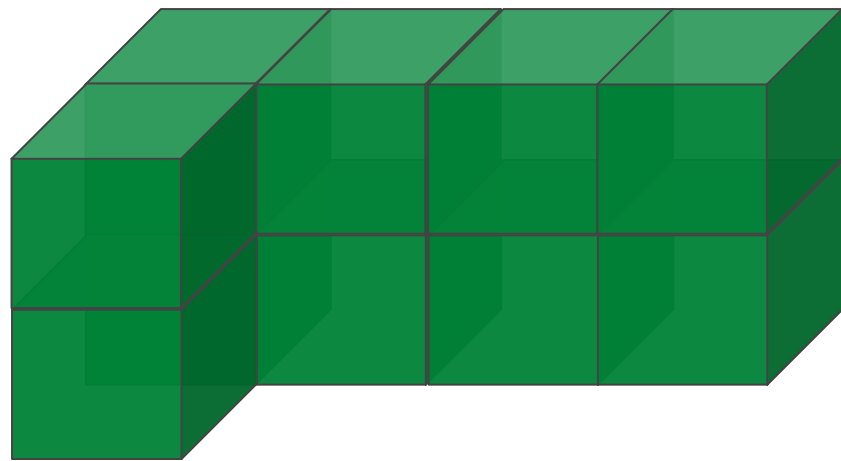
Mrs Buckmire

Try this

All of these have the same volume.

How many faces will be visible on each shape?

For each shape, can you sketch a shape with the same number of visible faces, but a different volume?
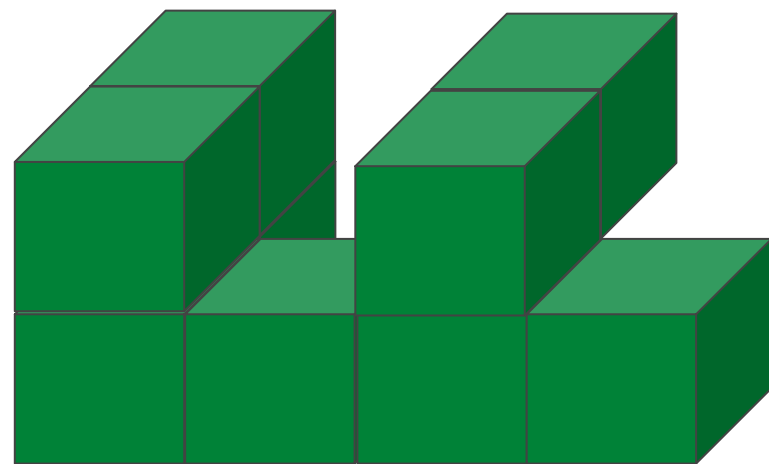
Independent task

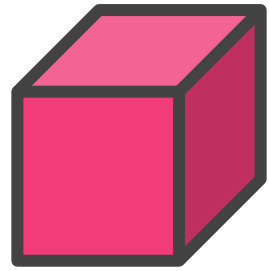1. Binh says this solid has a surface area of 15cm^2

a) What is the correct surface area?

b) What mistake do you think she made?

2 a) What is the surface area of this solid?

b) Where could you add a cube to make the surface area 40 units^2?

Explore

Zaki attaches 8 of these cubes together.

What is the maximum surface area?

What is the minimum surface area?

What if there are 9 cubes?

What do you notice?