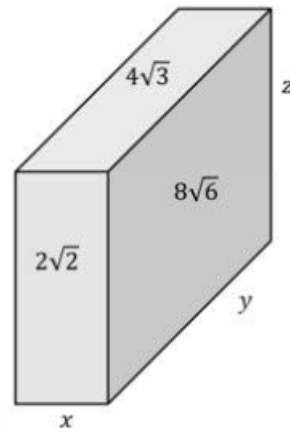


Senior Cycle Question 1

The diagram shows a cuboid with dimensions x , y and z cm.
The areas, in cm^2 , of three of its faces are also shown.



- (a) Find the **volume** of the cuboid in the form $a\sqrt{b} \text{ cm}^3$, where $a, b \in \mathbb{N}$.

Senior Cycle Question 2

How long it would take to return all of the gifts mentioned in the song '*The Twelve Days of Christmas*', if they are returned one day at a time? (one gift per day).