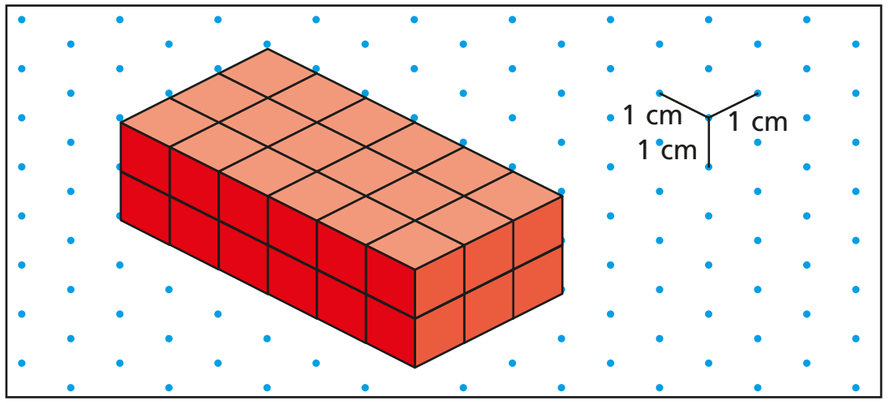
# Volume of a cuboid

**1** Here is a cuboid made up of cubes.

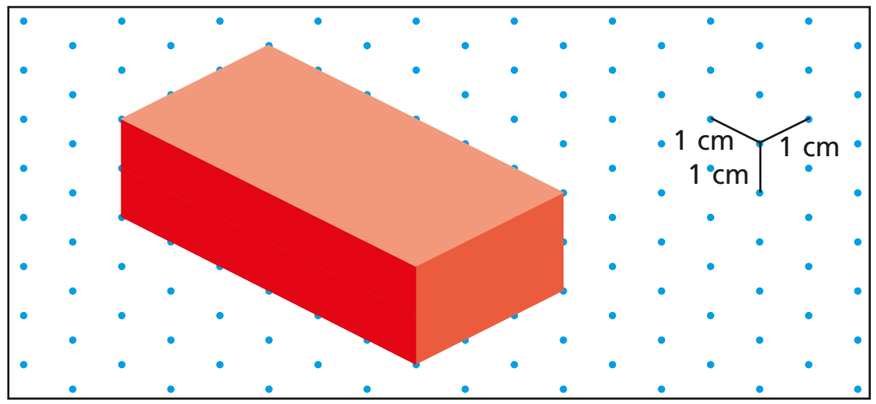



**a)** What is the volume of the cuboid?

volume = ☐ $cm^3$

**b)** Explain your method for finding the volume.

**c)** What is the volume of this cuboid?



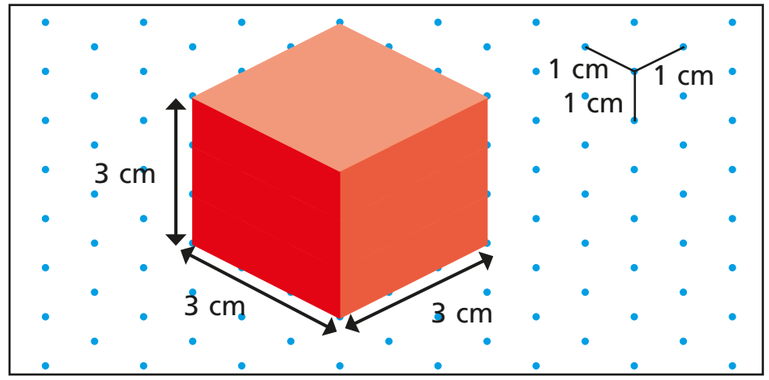

volume = ☐ $cm^3$

**d)** What is the same and what is different about the cuboids?

**2** Find the volume of the cuboids.

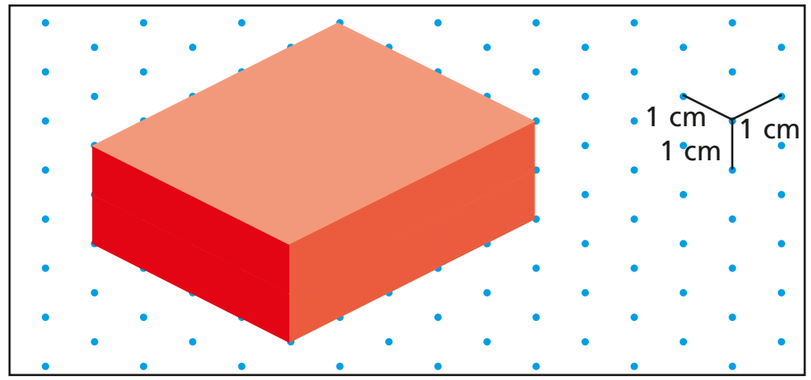
You can make them with cubes if it helps.

**a)**




volume = ☐ $cm^3$

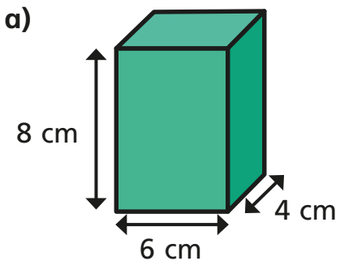
**b)**




volume = ☐ $cm^3$

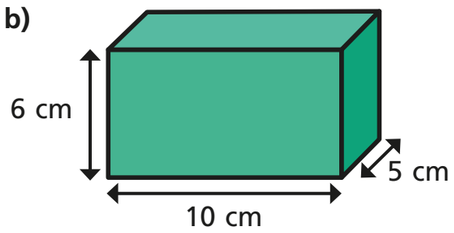
**3** Calculate the volumes of the cuboids.

**a)**




volume = ☐ $cm^3$

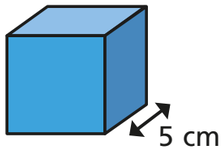
**b)**




volume = ☐ $cm^3$

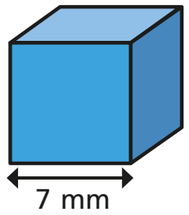
**4** Calculate the volumes of the cubes.

**a)**




volume = ☐ $cm^3$

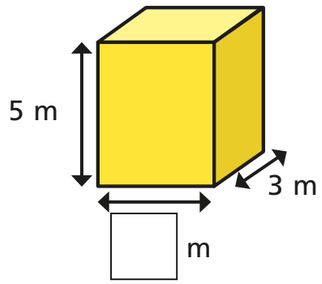
**b)**



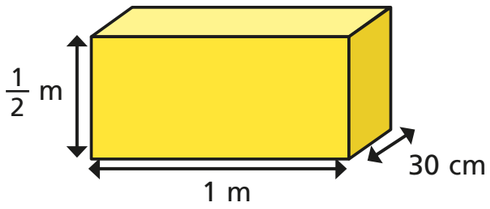

volume = ☐ $mm^3$

**5** The volume of the cuboid is 60 $m^3$

Find the missing length.

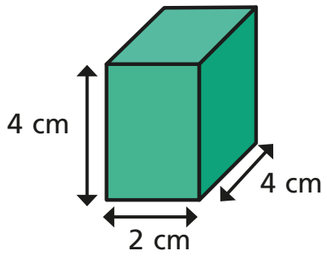



**6** Calculate the volume of the cuboid.

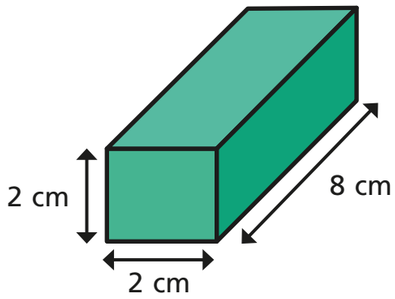



volume = ☐ $cm^3$

**7** **a)** Calculate the volumes of the two cuboids.




☐ $cm^3$

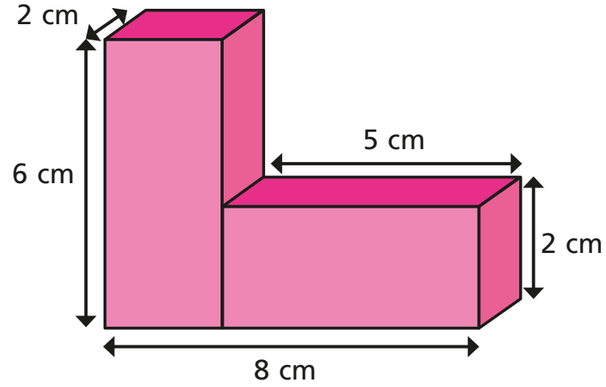



☐ $cm^3$

What do you notice?

**b)** Draw two different cuboids that have a volume of 24 $cm^3$

**8** Calculate the total volume of the shape.




volume = ☐ $cm^3$

Was there another method you could have used?