# What is volume?

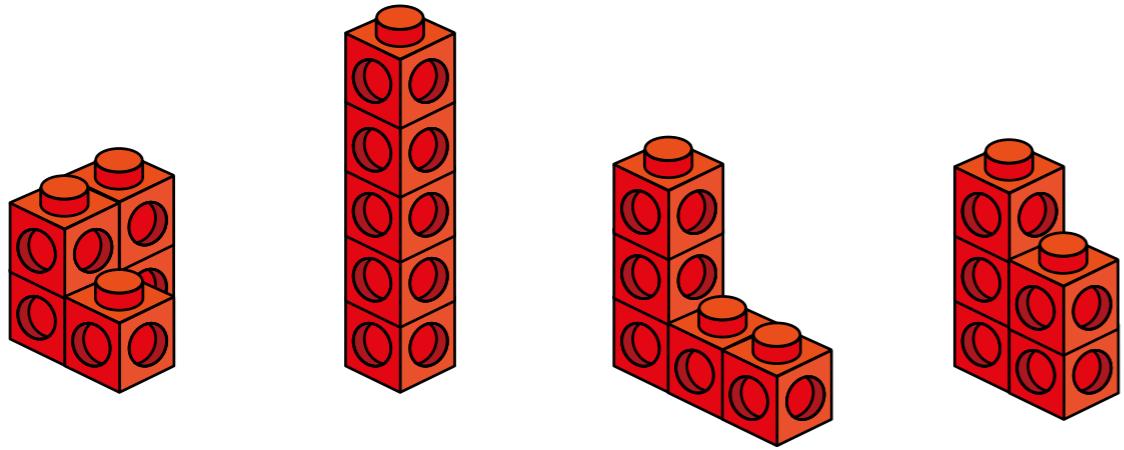**1** Dexter has made some 3D shapes using cubes.

**a)** What is the same about the 3D shapes he has made?

_____

_____

Compare answers with a partner.

**b)** What is different about the 3D shapes he has made?
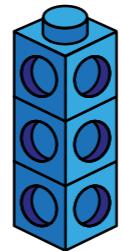
_____

_____

Compare answers with a partner.

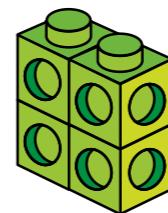**c)** What is the volume of each of Dexter's 3D shapes?
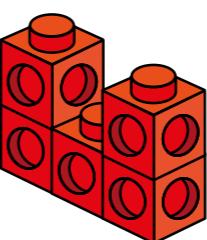
☐ cubes

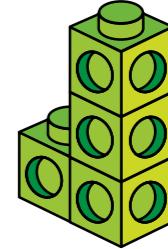**2** What is the volume of each 3D shape?

**a)**

volume = ☐ cubes

**b)**

volume = ☐ cubes

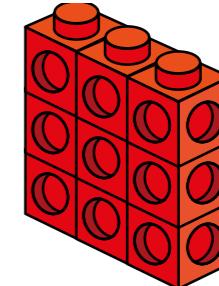**c)**

volume = ☐ cubes
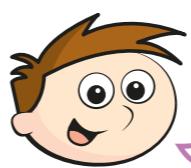
**d)**

volume = ☐ cubes

**e)**

volume = ☐ cubes
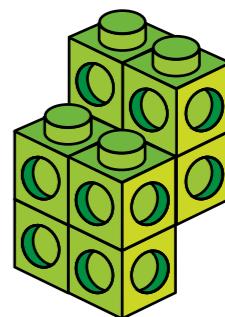
**f)**

volume = ☐ cubes

**3**

The volume of this shape is 7 cubes.

Do you agree with Teddy? _____
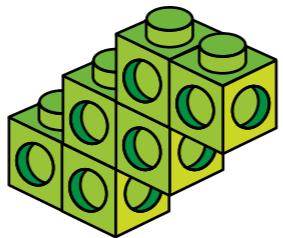
Explain your answer.

**4** Each cube has a volume of 1 cm³

What is the volume of each shape?

**a)**

**b)**

volume = ☐ cm³          volume = ☐ cm³

**5** Three cuboids are drawn on isometric paper.

A          B          C

**a)** How many cubes are needed to make each cuboid?

A ☐ cubes      B ☐ cubes      C ☐ cubes

**b)** If each cube has a side length of 1 cm, what is the volume of each cuboid?
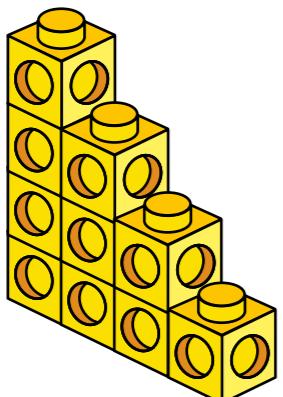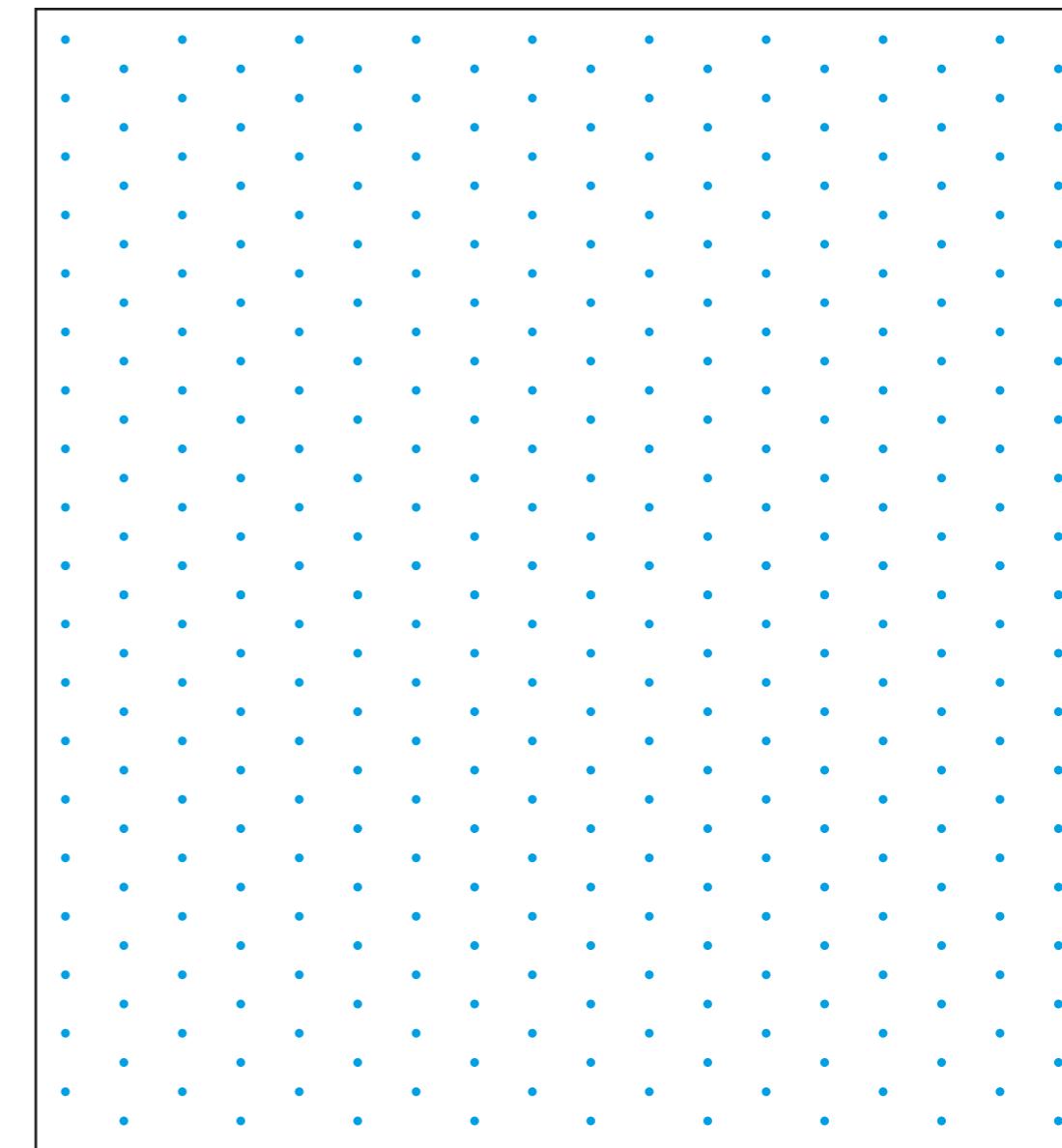
A ☐ cm³      B ☐ cm³      C ☐ cm³
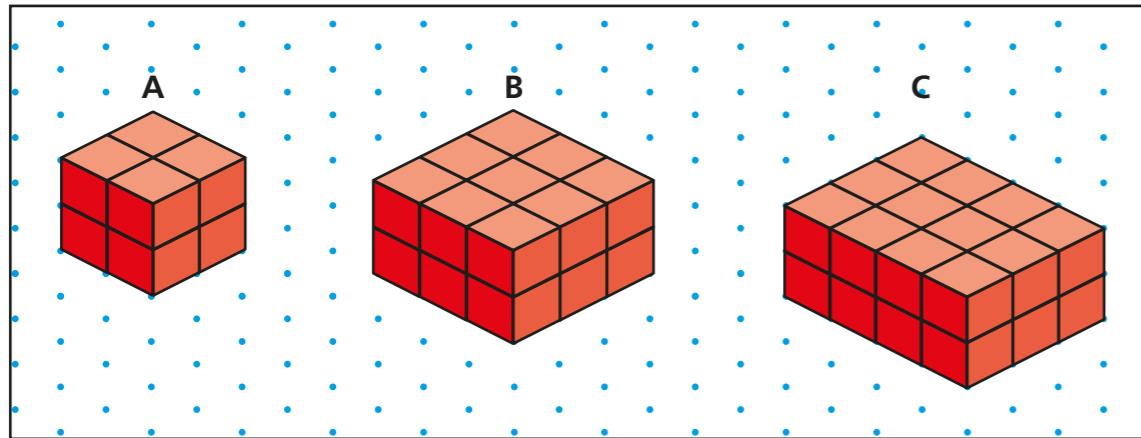
**6** Ron is making 3D shapes using 10 cubes.
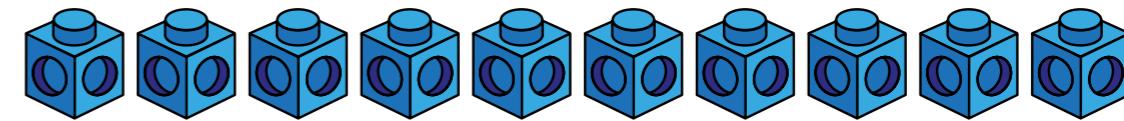
**a)** Use cubes to investigate the different shapes Ron can make.

**b)** Draw three of your shapes on the isometric paper.

**c)** What is the volume of each of your shapes?      ☐ cubes

**d)** Compare answers with a partner.
What is the same and what is different?