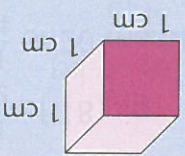


The cubic centimetre

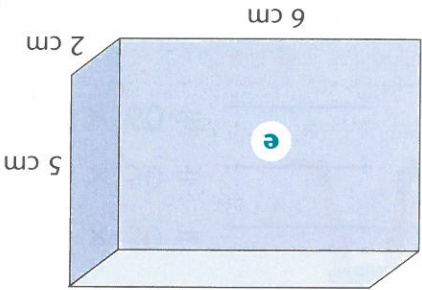
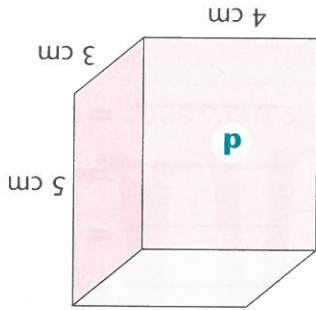
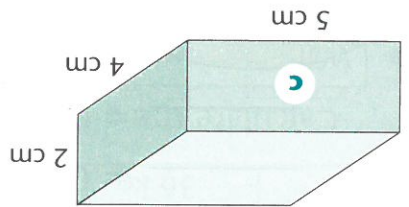
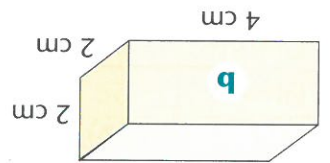
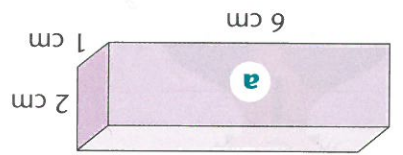
UNIT 4

The base unit for measuring volume is the **cubic centimetre**, which is a cube measuring 1 cm on all sides. A centimetre is a good example of a cubic centimetre.



8

Construct these prisms using centicubes. Count how many are in each, then record the dimensions and volume of each prism in cubic centimetres on the table (cm³).



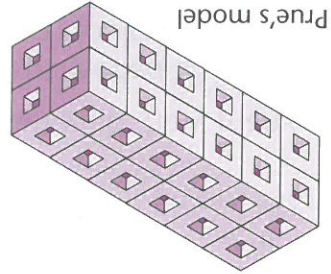
Shape	Length	Width	Height	Volume
a				cm ³
b				cm ³
c				cm ³
d				cm ³
e				cm ³

9

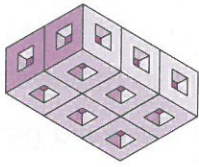
Did you notice any relationship between the length, width and height of the prism and its volume? What is the relationship?

10 Equal volumes

Prue has finished her model. Matt has only made the base of his model. How high will his model be if he is going to use the same number of cubes as Prue?



Prue's model



Matt's model

Matt's model will be _____ cubes high.