

Volume of cubes and cuboids

MODULE 5 · MEASURES — LENGTH, AREA, VOLUME, MASS AND CAPACITY

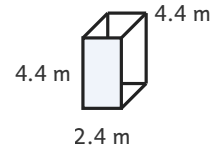
MEASURES

HOW TO ANSWER TODAY

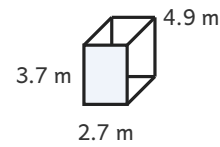
- **Volume.** Volume = length $\times$ width $\times$ height. Answer in cubic units (cm^3 , m^3).

★ STRETCH PROBLEMS

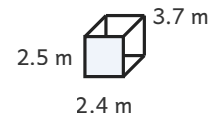
- 1 The PE store room at Niamh's school is a cuboid that measures **2.4 m** long, **4.4 m** wide and **4.4 m** high. The caretaker wants to know how much space is inside before stacking new mats. What is the volume of the store room?



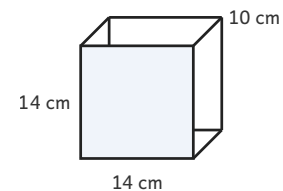
- 2 Cian's 5th class build a giant cuboid den in the school hall out of cardboard panels for their junk-modelling project. The finished den measures **2.7 m** long, **4.9 m** wide and **3.7 m** high. What is the volume of the den in cubic metres?



- 3 The caretaker is delivering a new storage container to keep GAA gear beside the wall-ball court. The container is a cuboid **2.4 m** long, **3.7 m** wide and **2.5 m** high. What is the volume of space inside it?



- 4 5th class are building a wooden storage box to hold the pieces for the giant chess board painted on the yard. The box is **14 cm** long, **10 cm** wide and **14 cm** high. What is the volume of the box?



- 5 At the after-school crafts club, Oisín builds a small cuboid storage box to hold the kite-making supplies. The box measures **12 cm** long, **6 cm** wide and **11 cm** high. What is the volume of the box?

