

Exam questions

Question 1

Sam wants to create a space for water play in the village hall.

He has this diagram of the floor in the village hall.

The space for water play must be

- in the shape of a rectangle 3.5 m by 4 m
- at least 2 m away from other activity spaces
- at least 3 m away from any door.

Draw a space for water play on the grid.

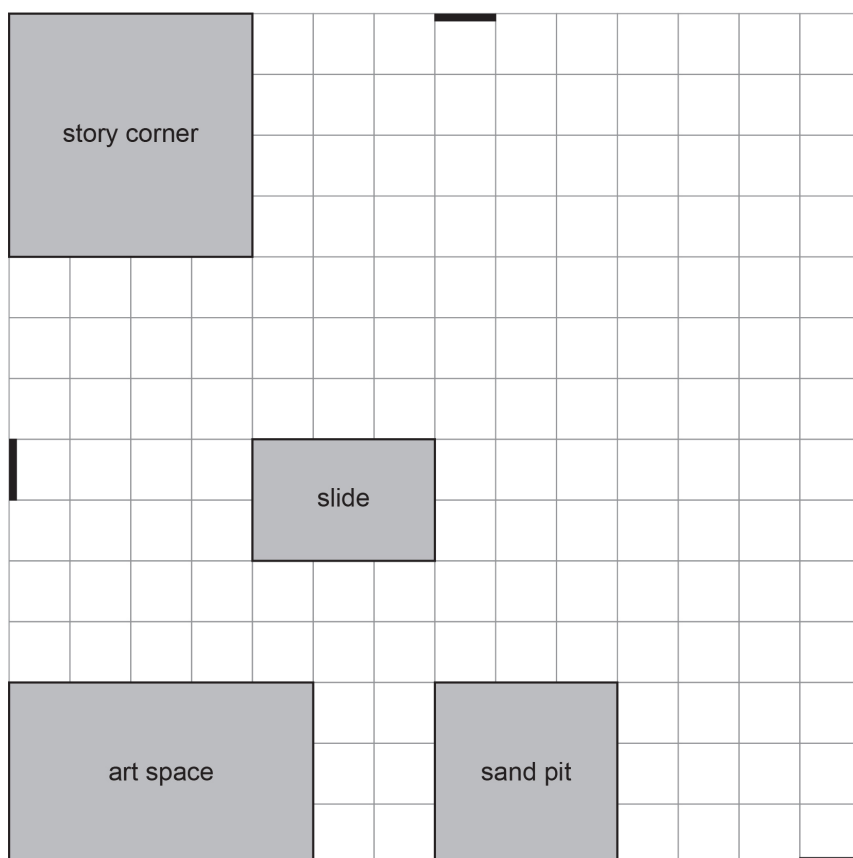
Key 1 square length on the grid represents 1 m on the village hall floor



activity space



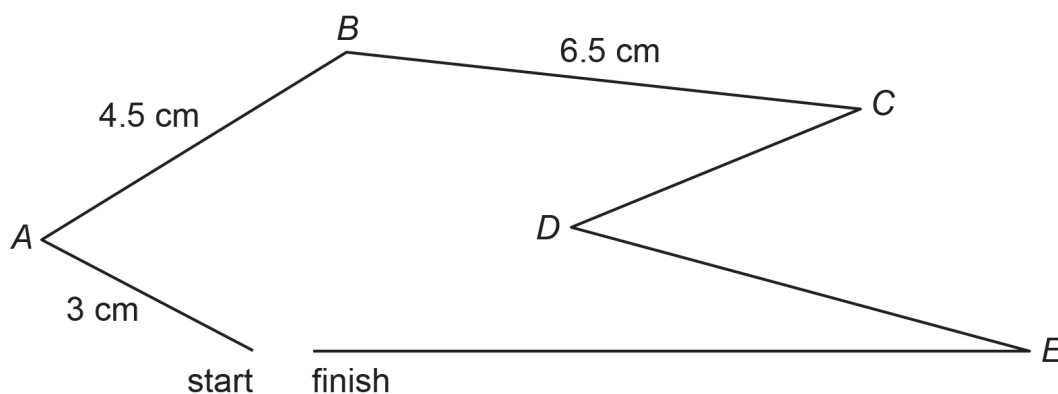
door



Question 2

John is organising a charity sailing race on the sea.

He starts to draw this accurate scale map of the course.



Key: 1 cm on the map is $\frac{1}{2}$ km on the sea.

Sailors begin the race at the start and follow the course to the finish.

John says

‘The course has a total distance of more than 18 km.’

Is John correct? You **must** show your working.