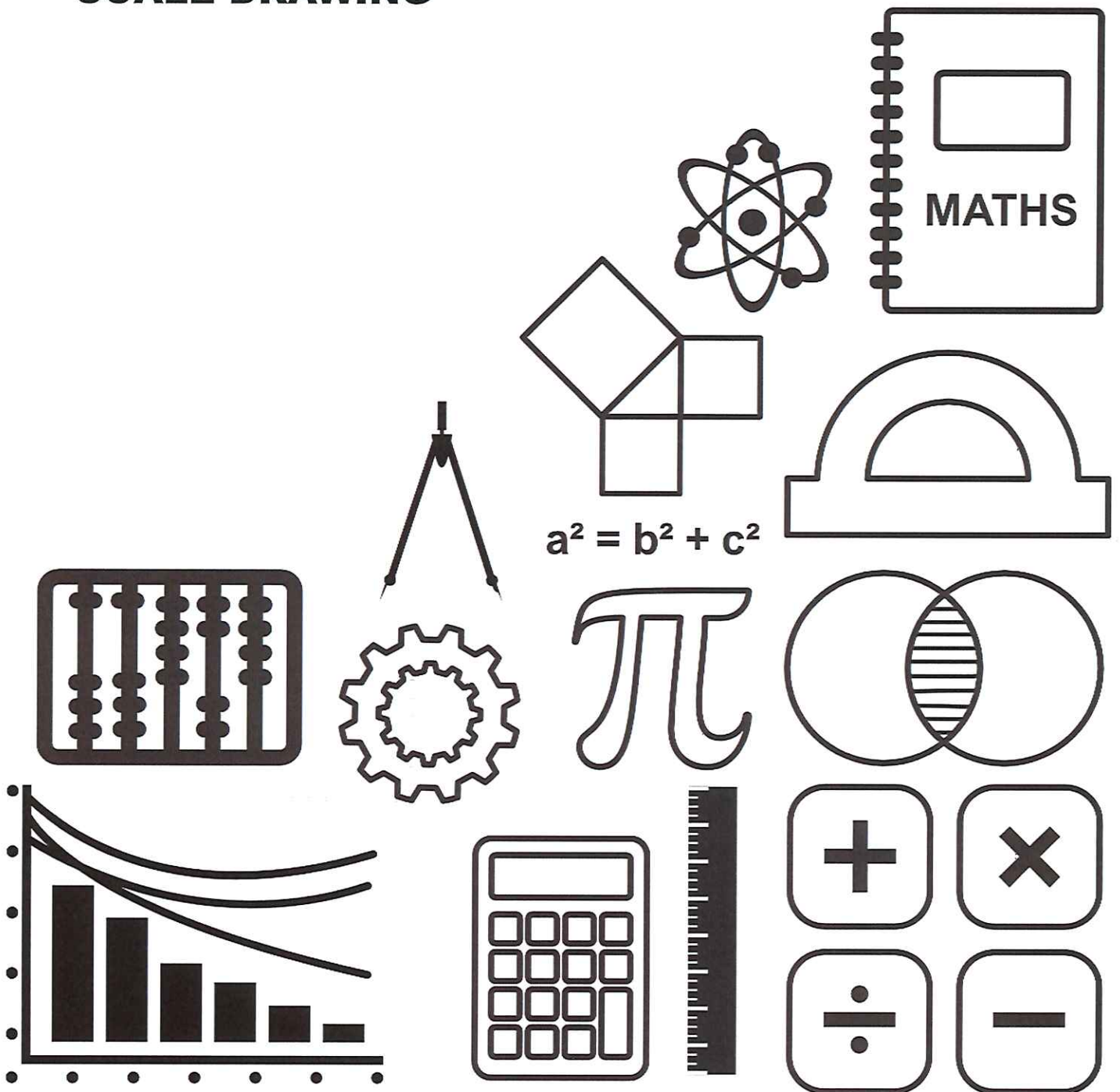


# MATHSDIY

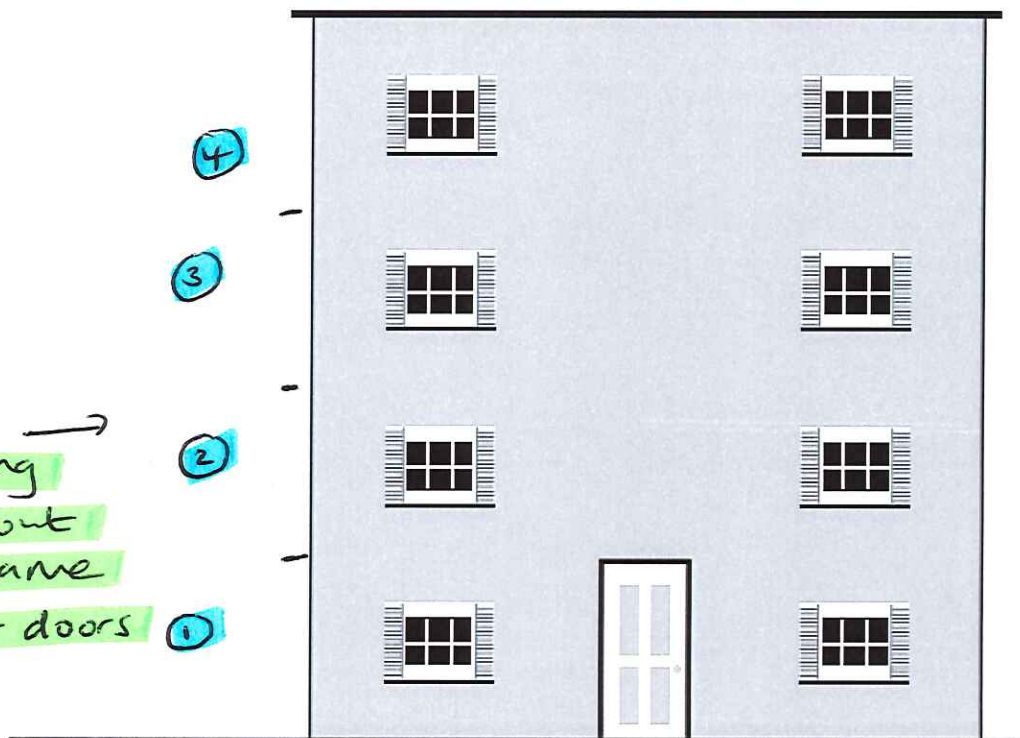
SOLUTIONS

## GCSE TOPIC BOOKLET SCALE DRAWING



1.

The building is about the same as 4 doors



The above picture shows a building.

Write down an estimate for the actual height of the door.

2.1m

Using this estimate for the height of the door, estimate the actual height of the building.

You must show all your working.

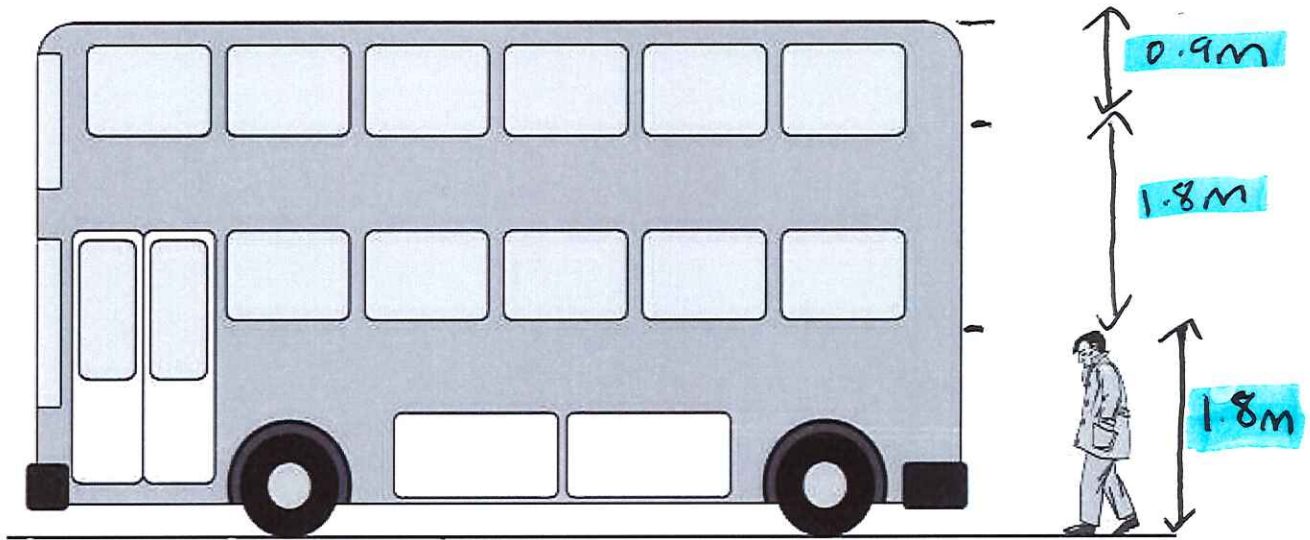
$$4 \times 2.1 = 8.4m$$

(I have chosen to work in metres. You might choose feet.

Eg if you say the door is 7foot, then the building would be  $4 \times 7\text{foot} = 28\text{feet}$ .

Also, the examiner accepts answers in a sensible range so you might say the door is 2.5m (this is fine too.) [4]

2.



The above diagram shows a bus and a man.

Write down an **estimate** for the **actual height** of the man. 1.8m

Using this estimate for the height of the man, estimate the **actual height** of the top of the bus above ground level. [4]

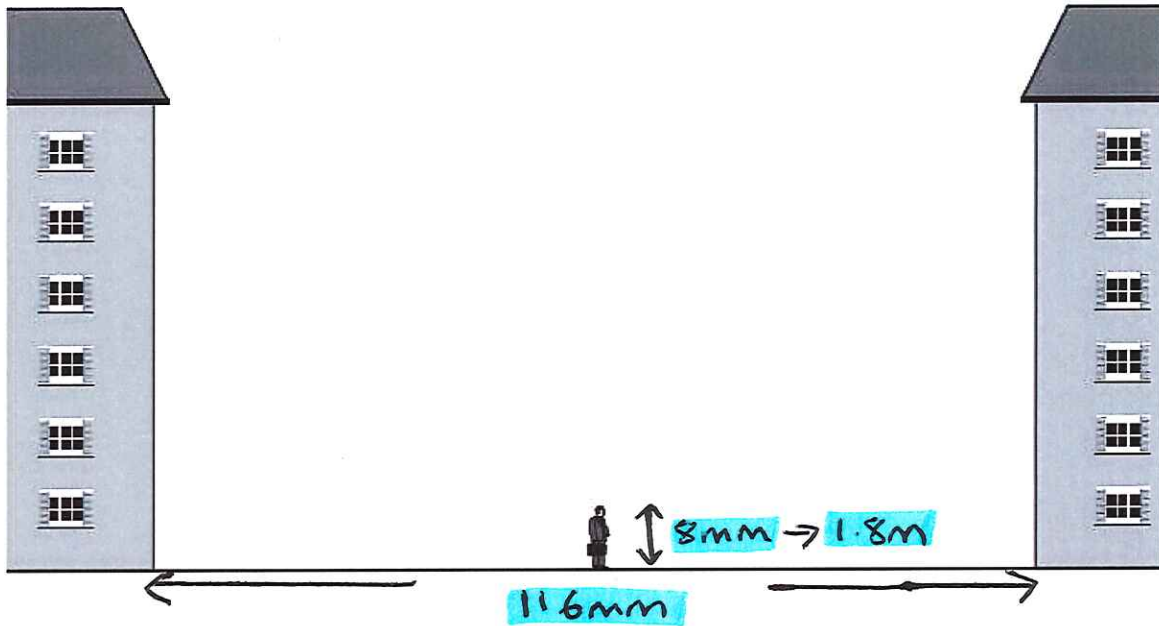
$$\begin{array}{r}
 1.8 \\
 + 1.8 \\
 0.9 \\
 \hline
 4.5 \\
 \hline
 2
 \end{array}$$

4.5m

(answers using feet are fine)

(4)

3.



The above picture shows a man standing between two buildings.

Write down an estimate for the actual height of the man. 1.8m

Using this estimate for the height of the man, estimate the actual distance between the two buildings.

You must show all your working.

Distance = 116mm

$$8 \overline{) 116} \begin{array}{r} 14.5 \\ \underline{80} \\ 36 \\ \underline{36} \\ 0 \end{array}$$

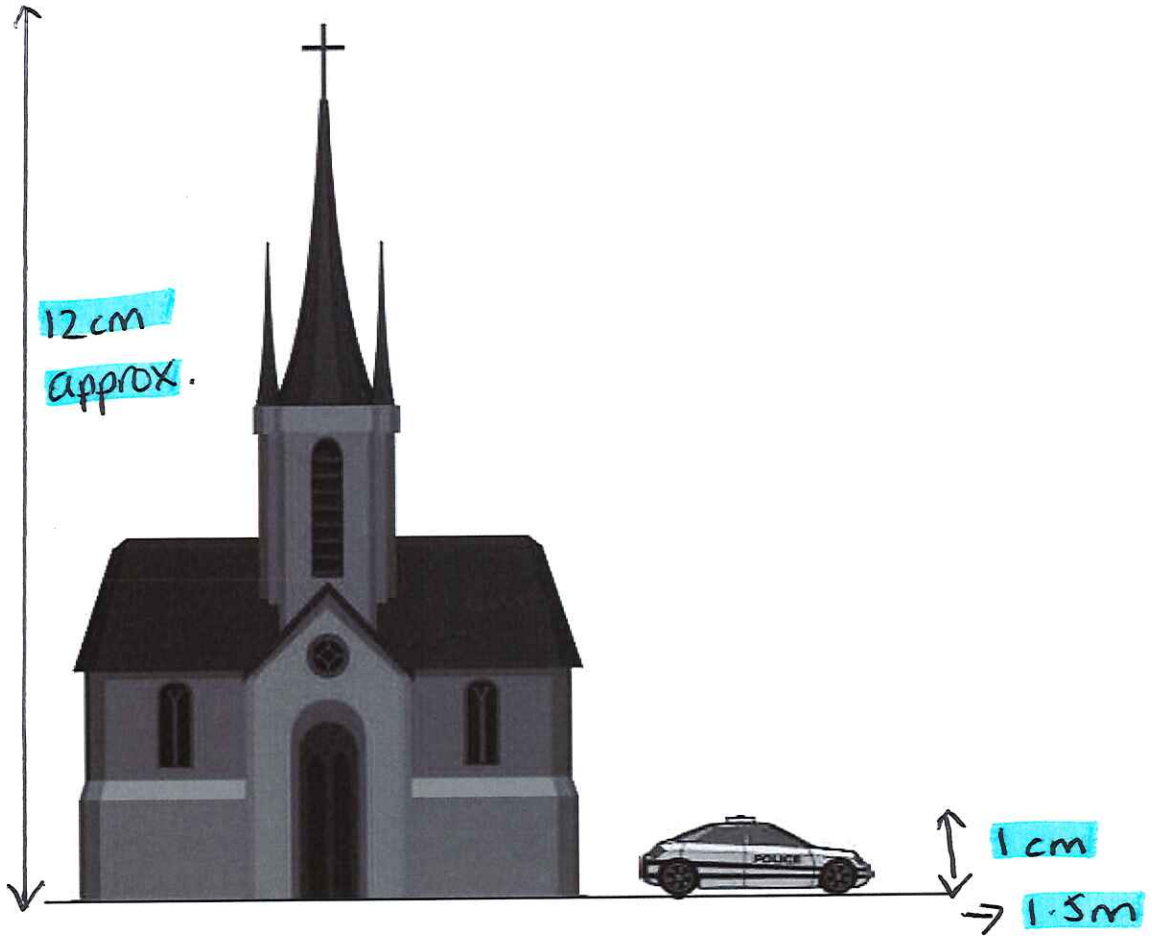
$14.5 \times 1.8m$

$\approx 15 \times 1.8m$

= 27m

(4)

4.



The above picture shows a police car next to a church.

Write down an **estimate** for the **actual height** of the car. 1.5m

Using this estimate for the height of the car, estimate the **actual height** of the top of the cross on the church above ground level.

$12 \times 1.5m = \underline{\underline{18m}}$

.....

.....

.....

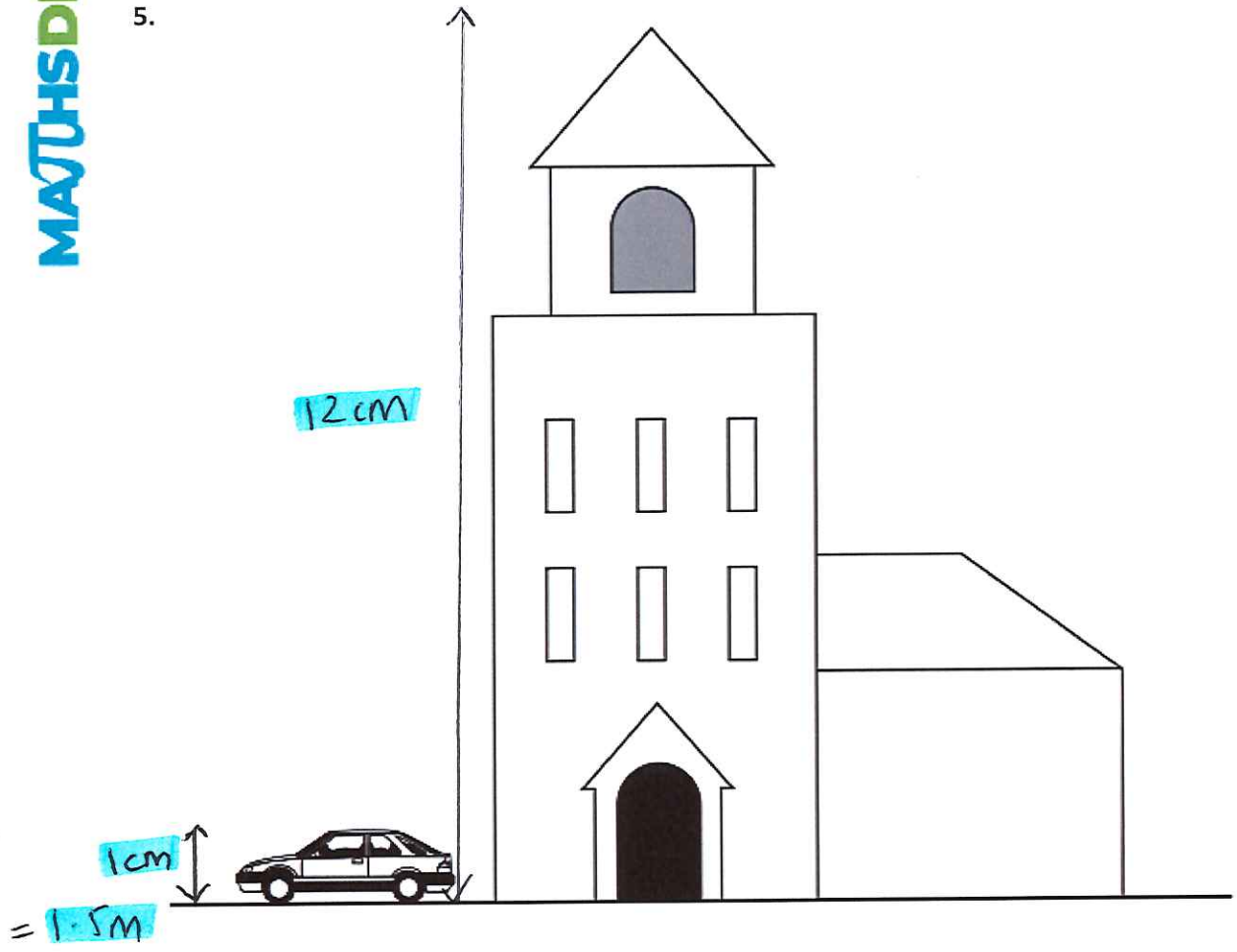
.....

.....

.....

(4)

5.



The above picture shows a car in front of a church.

Write down an **estimate** for the **actual height** of the car. 1.5m

Using this estimate for the height of the car, estimate the **actual height** of the top of the church above ground level.

.....  
.....  
 $12 \times 1.5 = \underline{18m}$   
.....  
.....  
.....  
.....

(4)