Name: _____

ASM Tuition Academy

SCALE DRAWINGS

Instructions:

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided - there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
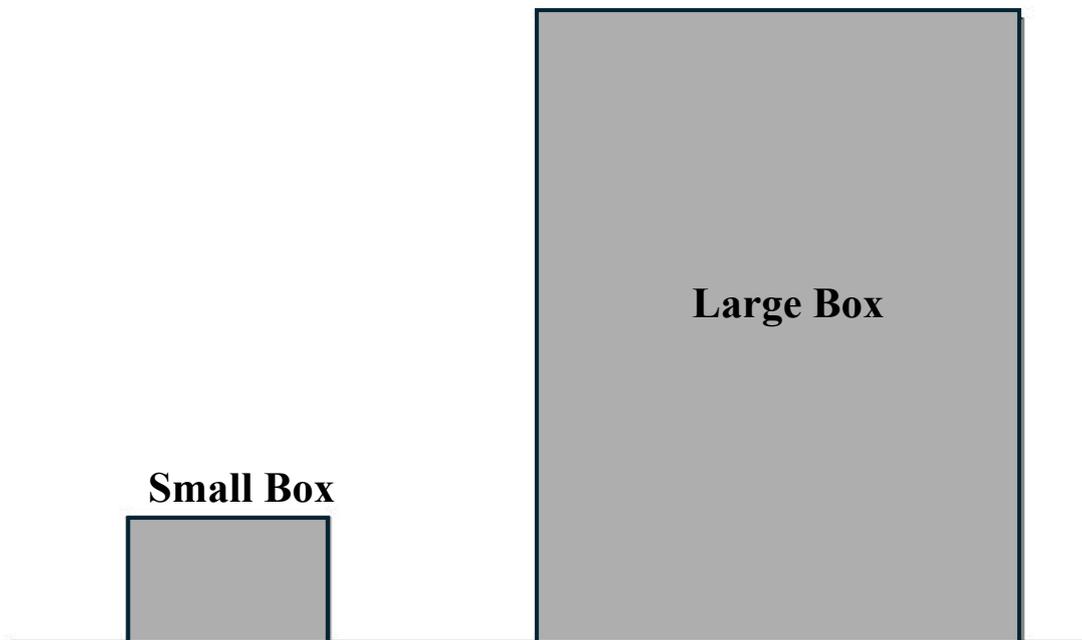- You must **show all you're working out.**

Information:

- The marks for each question are shown in brackets
  - use this as a guide as to how much time to spend on each question.

Advice:

- Read each question carefully before you start to answer it.
- Keep an eye on time.
- Try to answer every question.
- Check your answers if you have time at the end.

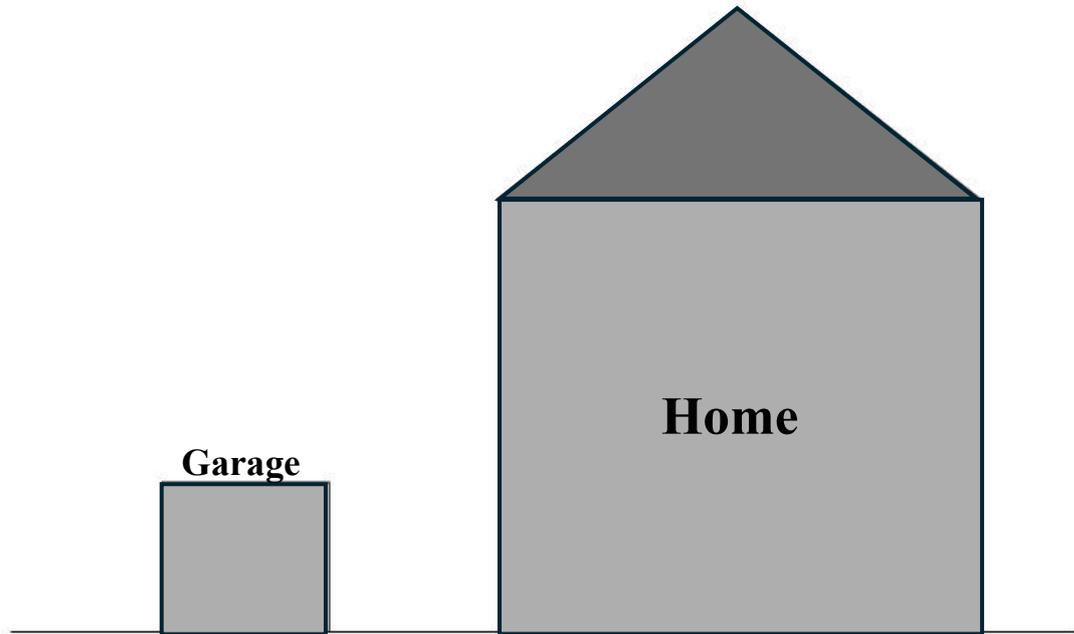Q1. The accurate scale drawing shows a small box and a large box

The small box has a real height of 20 centimeters.

Find an estimate for the real height of the large box.

(Total for question 1 is 2 marks)

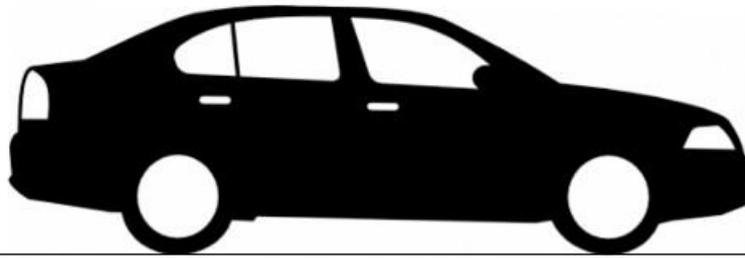Q2. The accurate scale drawing shows a garage and a house.

The garage has a real height of 2.4 meters.

Find an estimate for the real height, in meters, of the house.

(Total for question 2 is 2 marks)

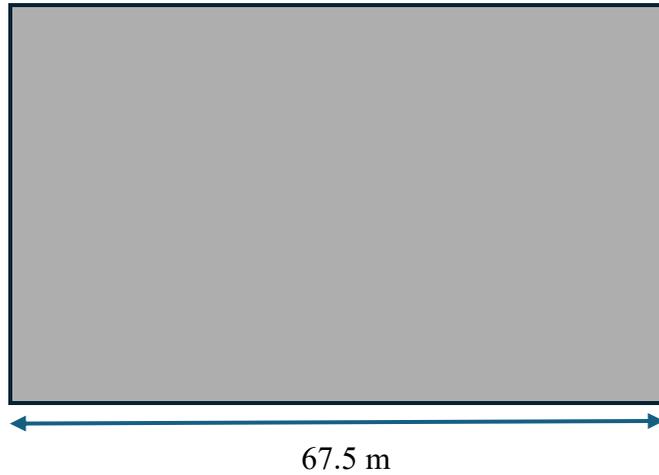Q3. The accurate scale drawing shows a car.

The car has a real height of 1.5 meters.

Find an estimate for the real length, in meters, for the car.

(Total for question 3 is 2 marks)

Q4. The accurate scale drawing shows a garage.

67.5 m

The field has a real length of 67.5 meters.

Find an estimate for the real perimeter of the field

(Total for question 4 is 3 marks)

Q5. The accurate scale drawing shows three towns, Village A, Village B and Village C.

X
Village A

Village B
X

X
Village C

The scale is 1:50000

a) Find the real distance between Village A and Village B, in kilometers.

b) Find the real distance between Village A and Village C, in kilometers.

(Total for question 5 is 6 marks)

Q6. A model airplane has length of 12 cm.
The scale of the model is 1:40.
Work out the length of the real airplane.
Give your answer in meters.

(Total for question 6 is 2 marks)

Q7. A map has a scale of 1:25000.
The distance between two towns on the map is 8 cm.
Work out the real distance between the two towns.
Give your answer in kilometers.

(Total for question 7 is 3 marks)

Q8. A model ship has the length of 15 cm.
The scale of the model is 1:250.
Work out the length of the real ship.
Give your answer in meters.

(Total for question 8 is 2 marks)

Q9. A map has the scale of 1:60000.

The distance between two villages on the map is 9 cm.

Work out the real distance between the two villages.

Give your answer in kilometers.

(Total for question 9 is 3 marks)