

Design and Technology  
COMPONENT 1: Timbers

Monday 19 June 2023 – Morning

Diagram Booklet

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

## INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

**THIS DIAGRAM BOOKLET MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.**

## **Contents**

### **Page**

<b>5</b>	<b>Question 1(a)</b>
<b>6</b>	<b>Question 2</b>
<b>7</b>	<b>Question 2(c)</b>
<b>8–9</b>	<b>Question 2(d)</b>
<b>10</b>	<b>Question 3</b>
<b>11</b>	<b>Question 3(d)</b>
<b>12</b>	<b>Question 4</b>
<b>13–14</b>	<b>Question 5(a)</b>
<b>15</b>	<b>Question 5(a) – Outline</b>
<b>16</b>	<b>Question 5(b)</b>
<b>17</b>	<b>Question 6(a)</b>
<b>18</b>	<b>Question 6(b)</b>
<b>19</b>	<b>Question 7(a)</b>
<b>20</b>	<b>Question 7(b)</b>
<b>21</b>	<b>Question 7(c) (NOT accurately drawn)</b>
<b>22</b>	<b>Question 7(c) – 5mm isometric grid</b>
<b>23</b>	<b>Question 8</b>
<b>24</b>	<b>Question 8(d)</b>

**(continued on the next page)**

## **Contents continued.**

### **Spare Copies**

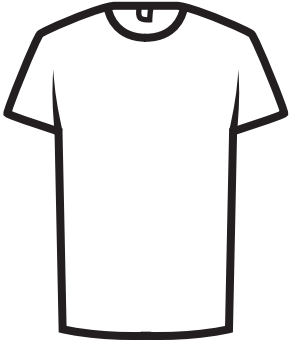
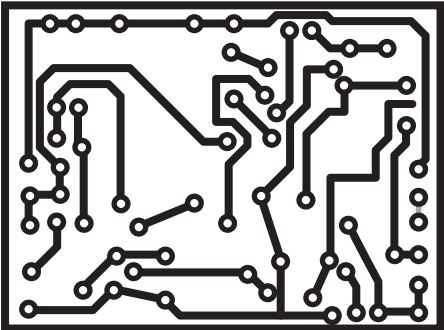
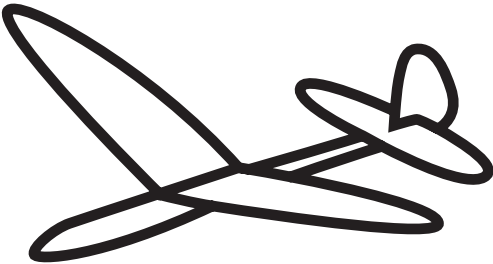

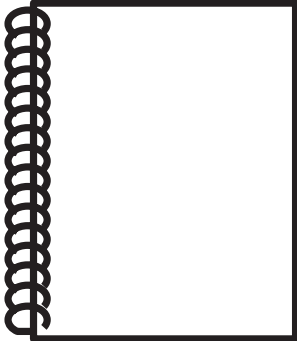
**25      Question 1(a)**

**26      Question 5(a) – Outline**

**27      Question 7(c) – 5mm isometric grid**

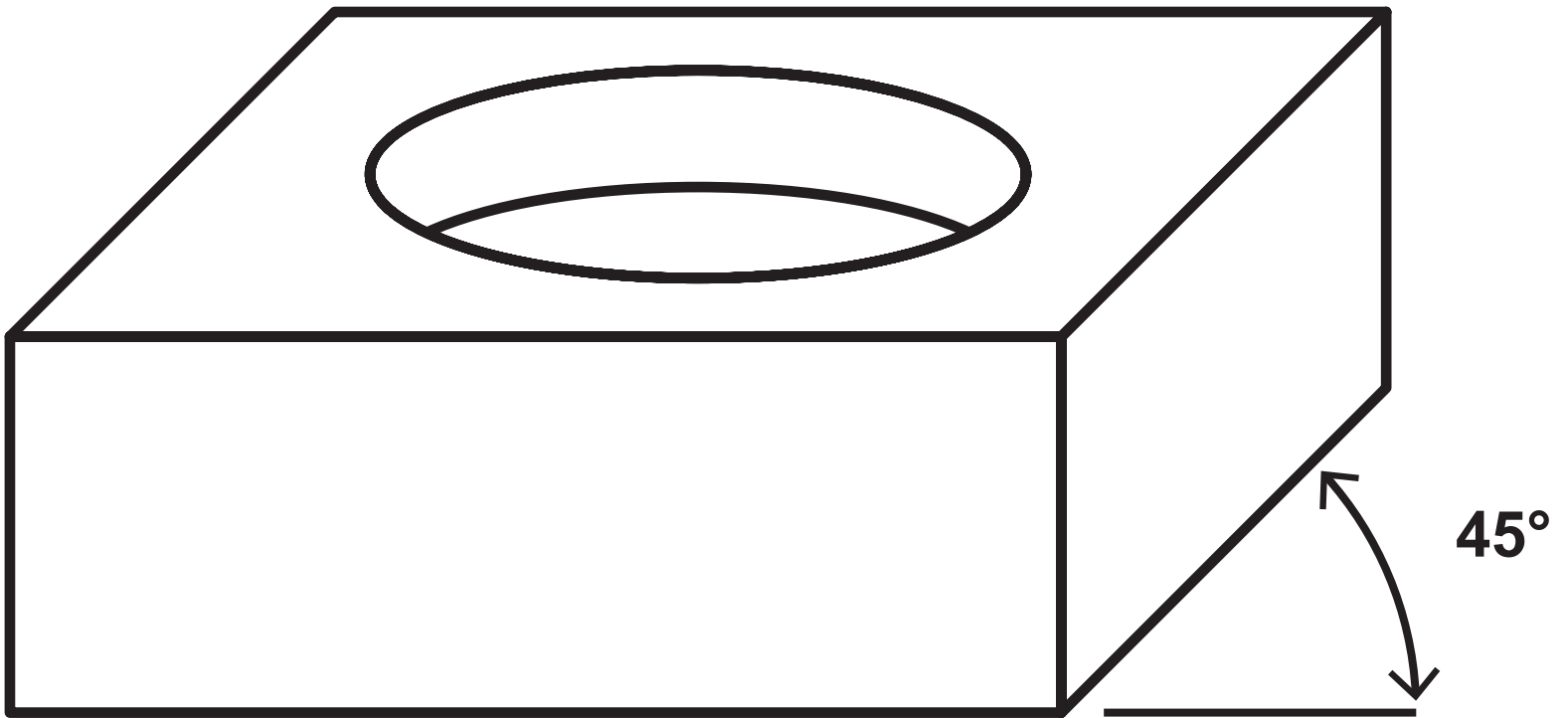
Question 1(a)

FIGURE 1

Picture of product	Material and product	Property
	Cotton T-shirt	Soft
	Polyester resin printed circuit board (PCB)	(i) _____
	Balsa wood toy plane	(ii) _____
	Stainless steel kitchen scissors	(iii) _____
	Solid white board hardback book cover	(iv) _____

## Question 2

FIGURE 2



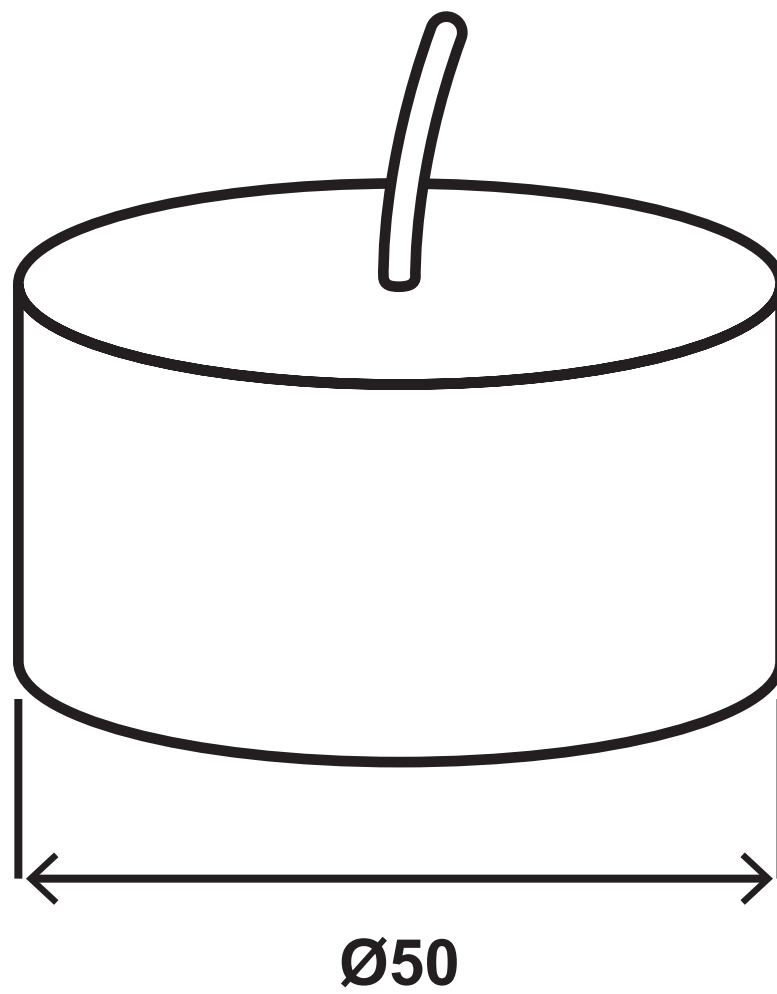
**Question 2(c)****FIGURE 3****All dimensions in mm****Ø – diameter**

FIGURE 4

All dimensions in mm

Volume of cylinder =  $\pi \times r^2 \times h$

Use  $\pi = 3.142$

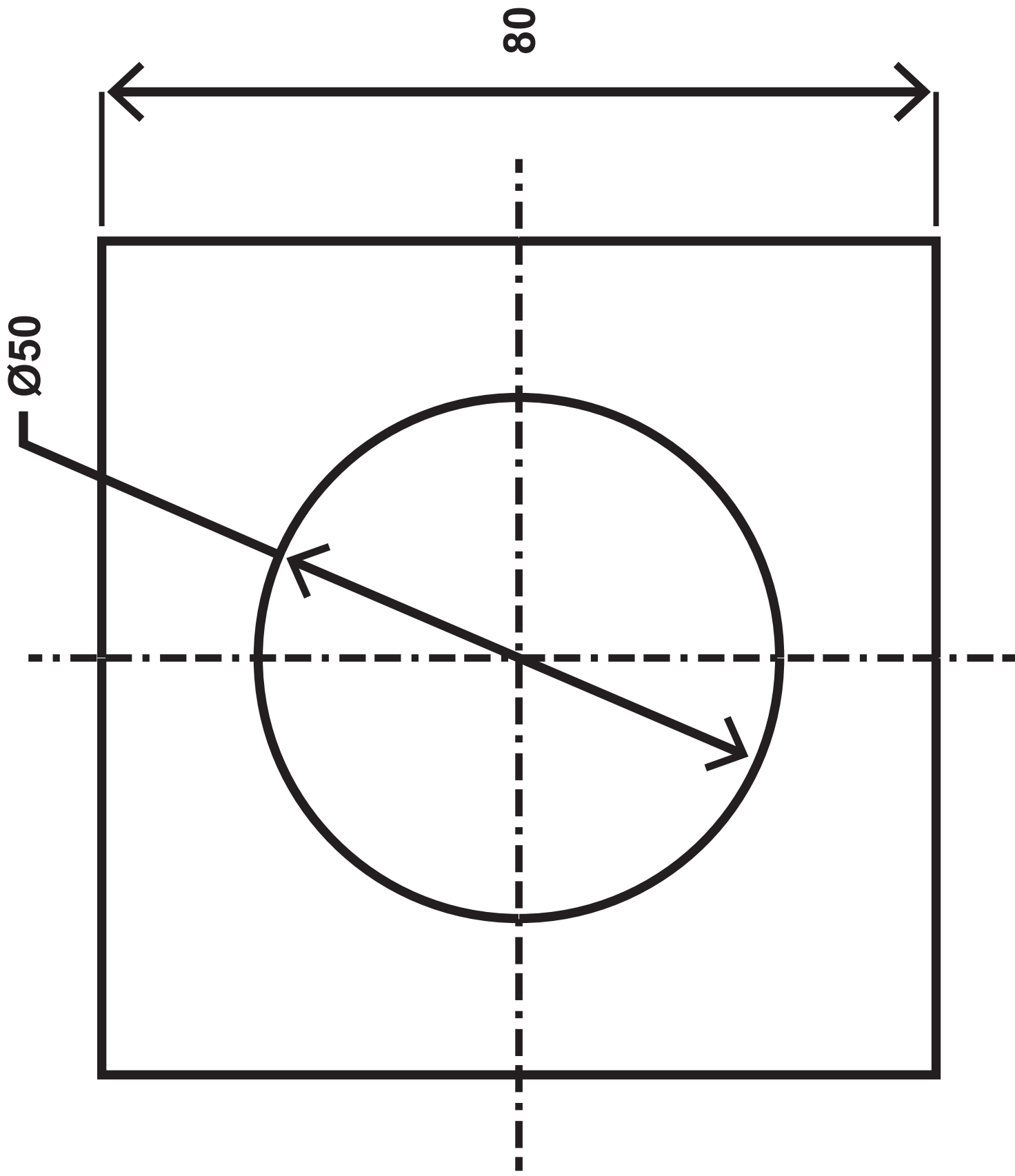
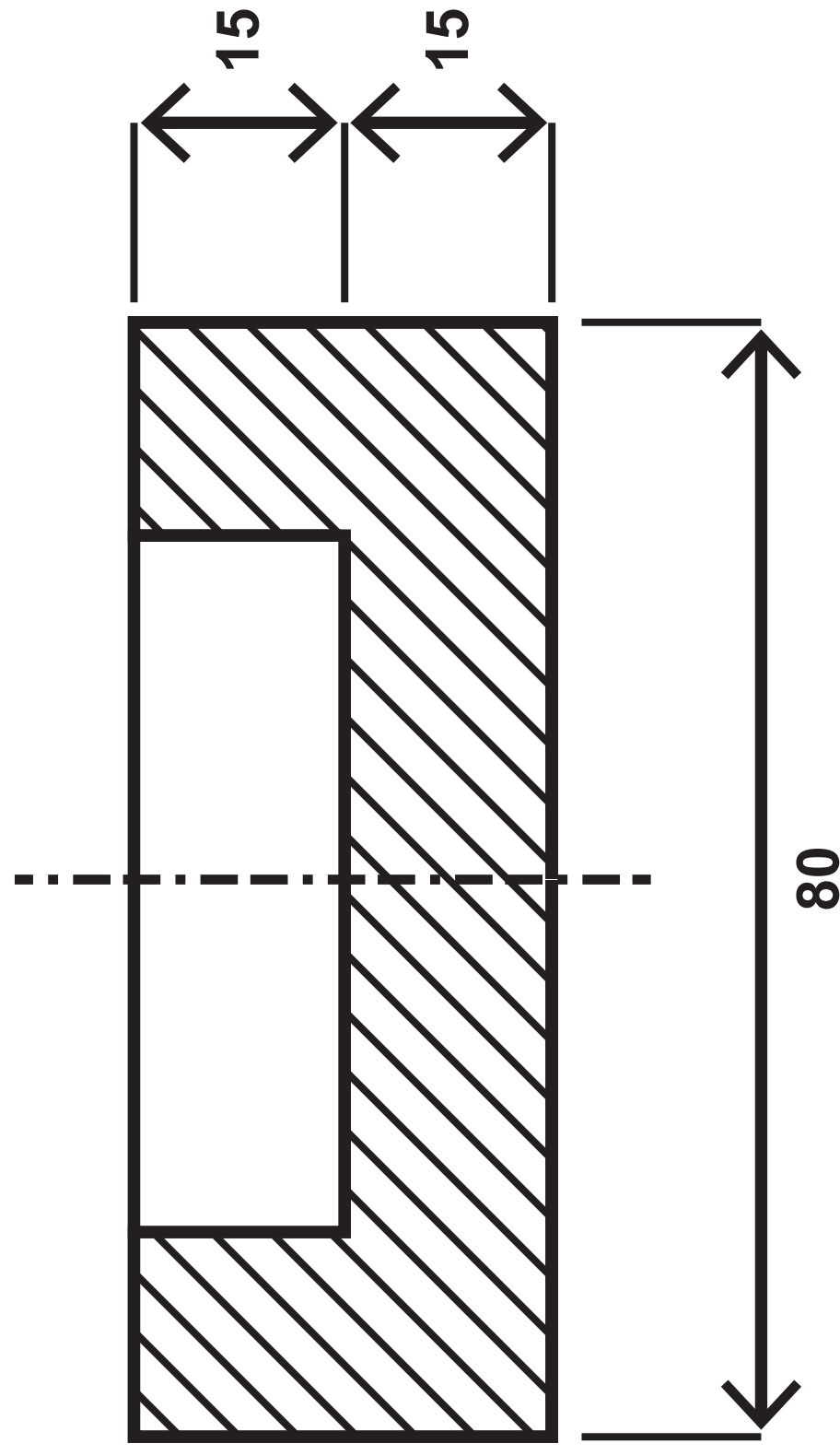




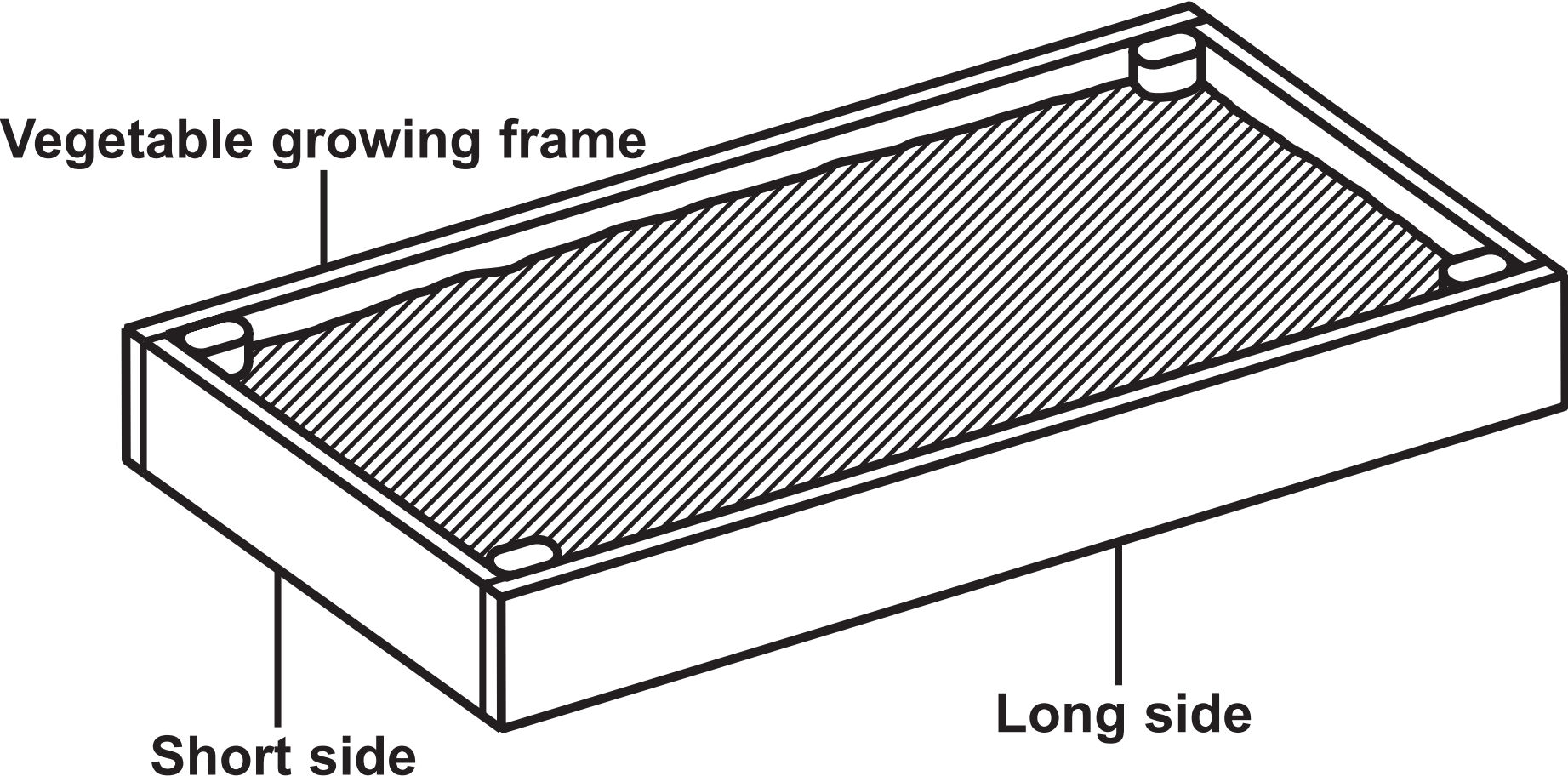
FIGURE 4

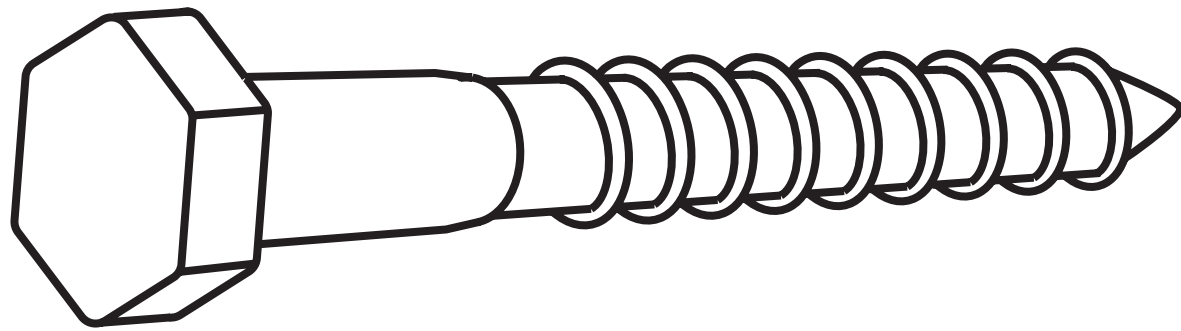
All dimensions in mm      Volume of cylinder =  $\pi \times r^2 \times h$       Use  $\pi = 3.142$



Question 3

FIGURE 5



**Question 3(d)****FIGURE 6**

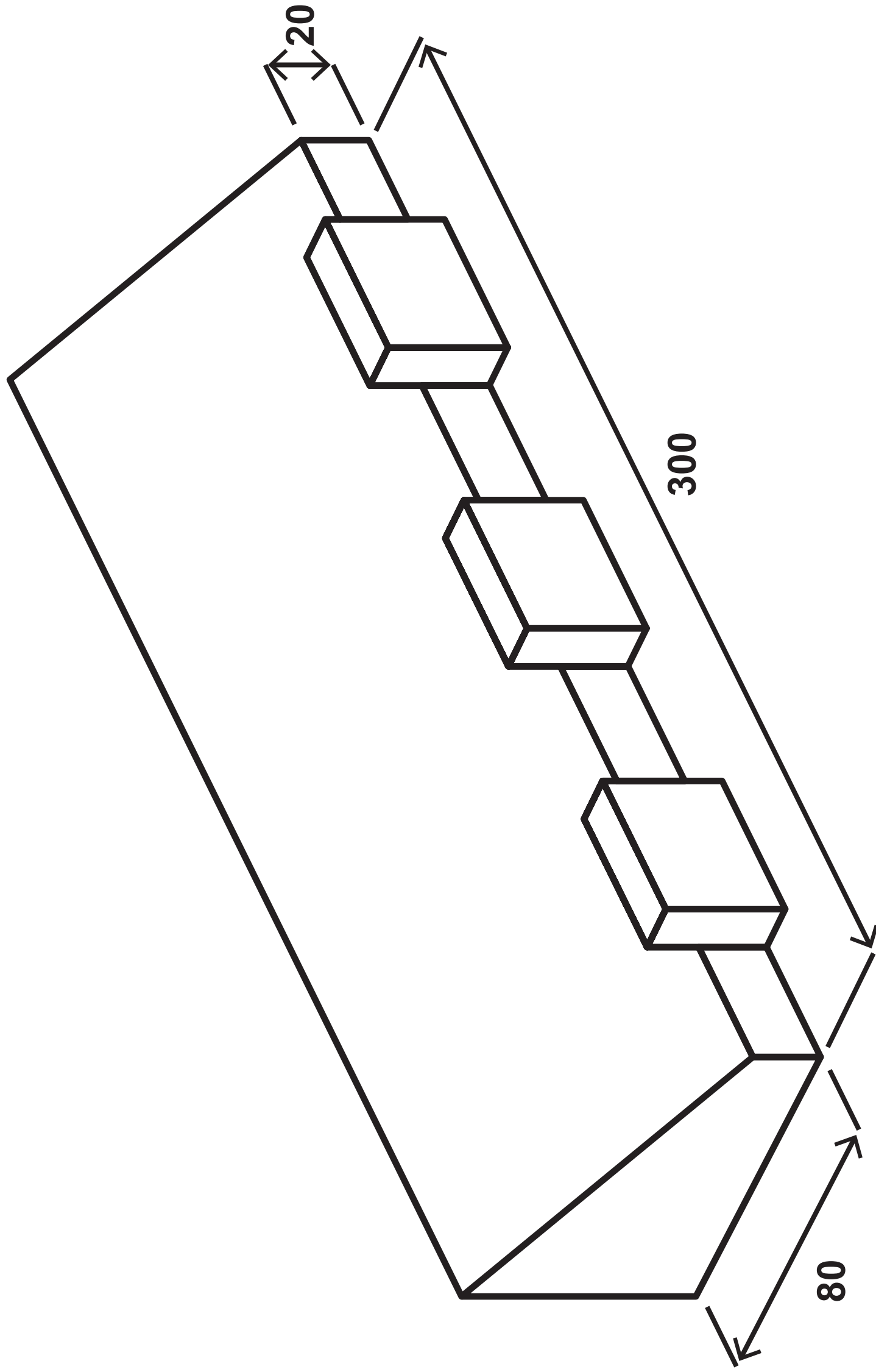
Question 4

FIGURE 7



FIGURE 8

All dimensions in mm

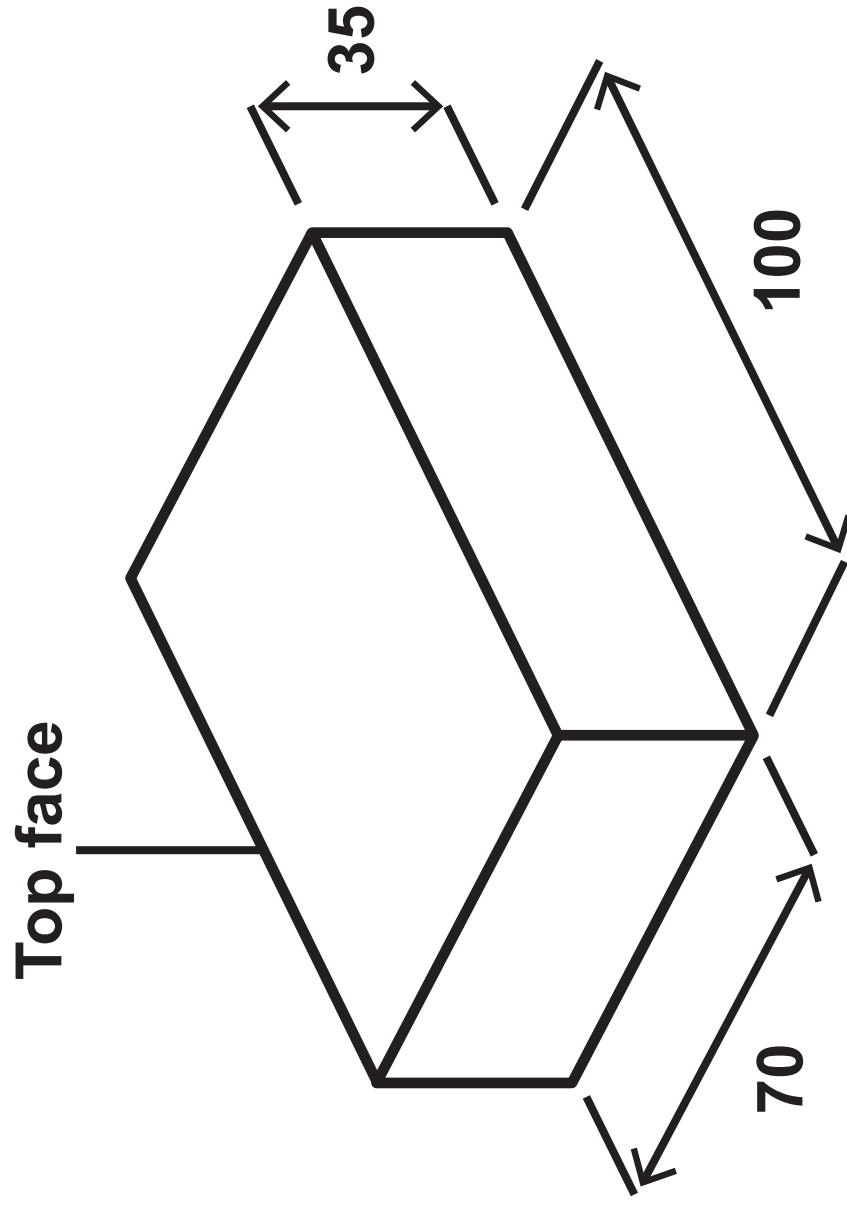


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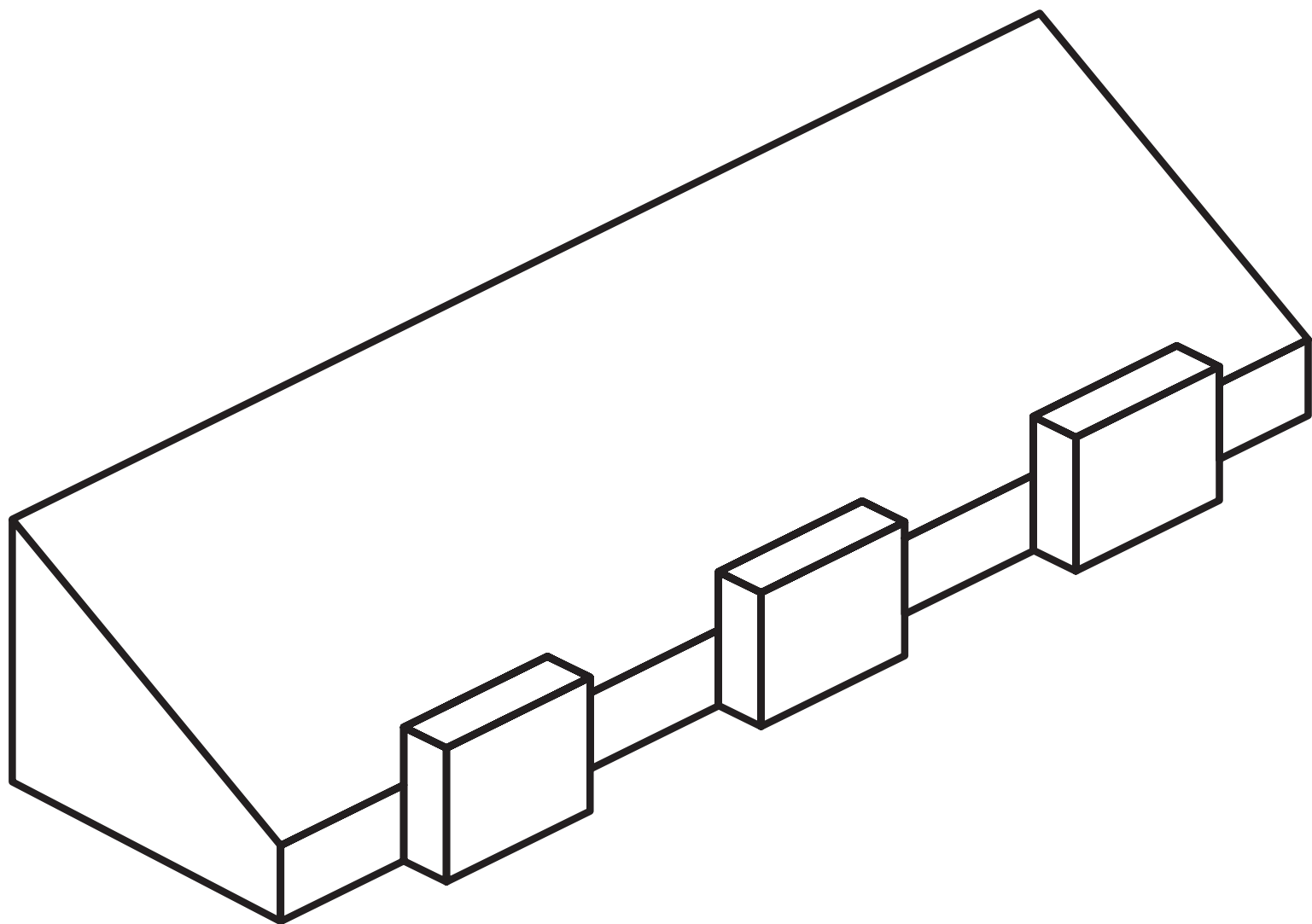
FIGURE 8

Additional information – dimensions of box of chocolates

All dimensions in mm



Question 5(a) – Outline



Question 5(b)

FIGURE 9

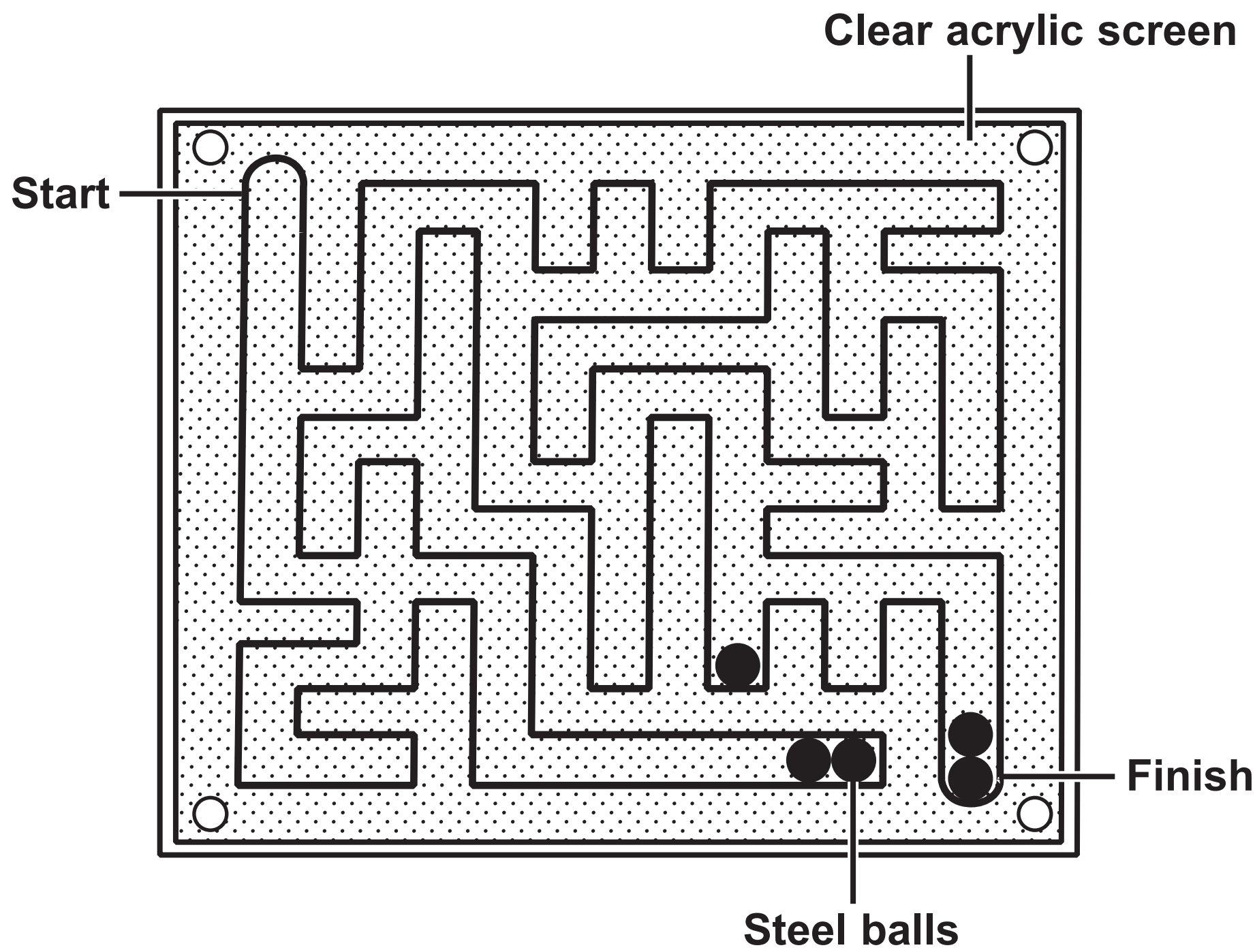
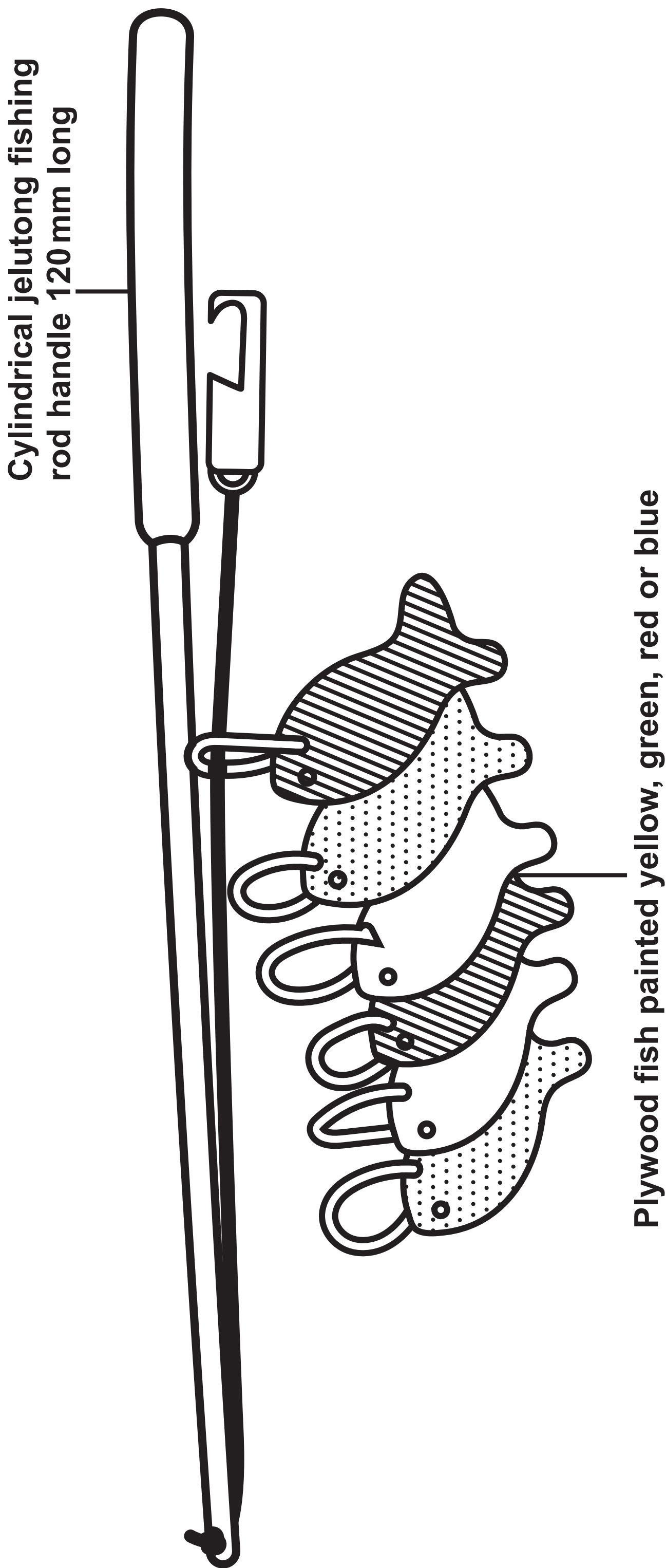




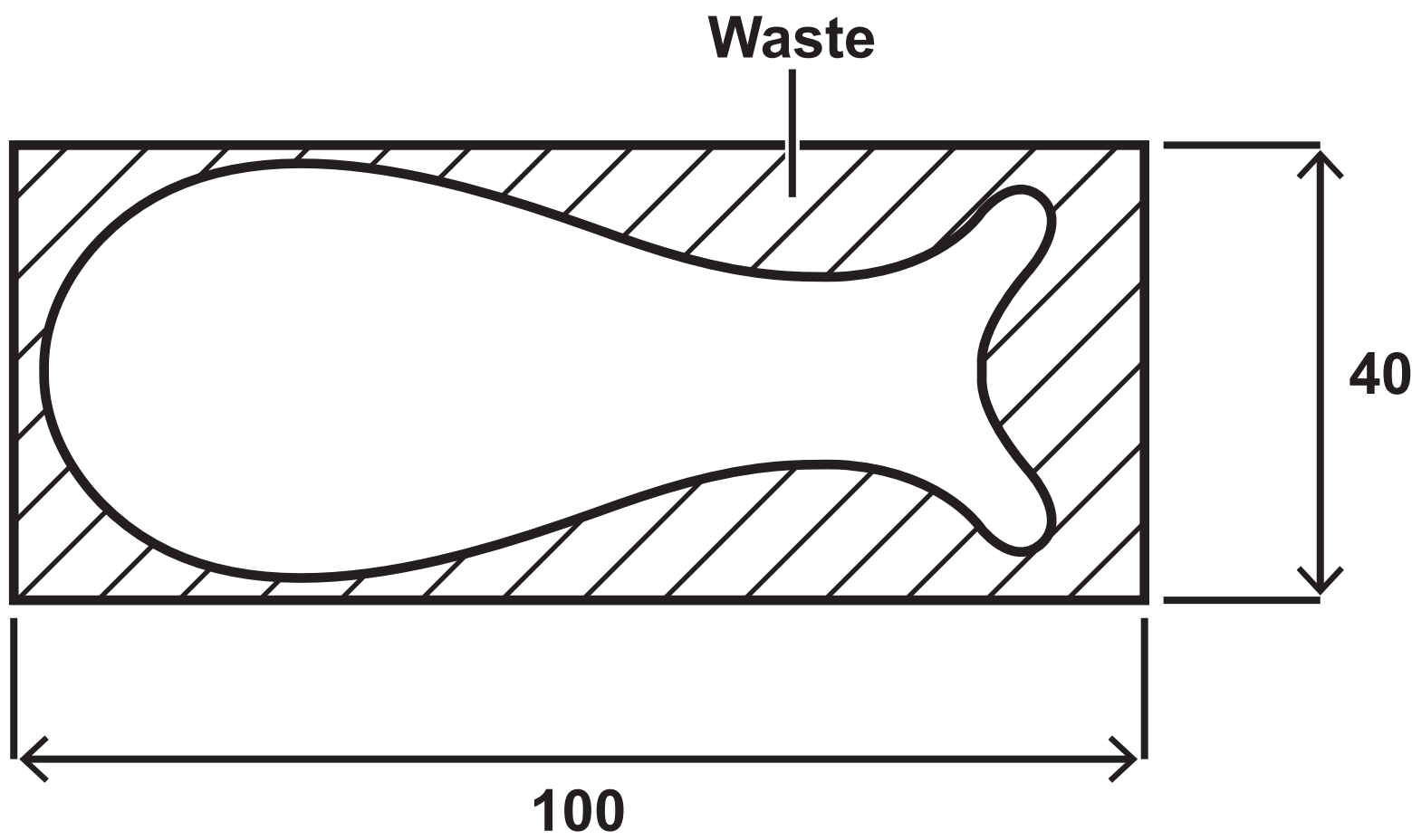
FIGURE 10



Question 6(b)

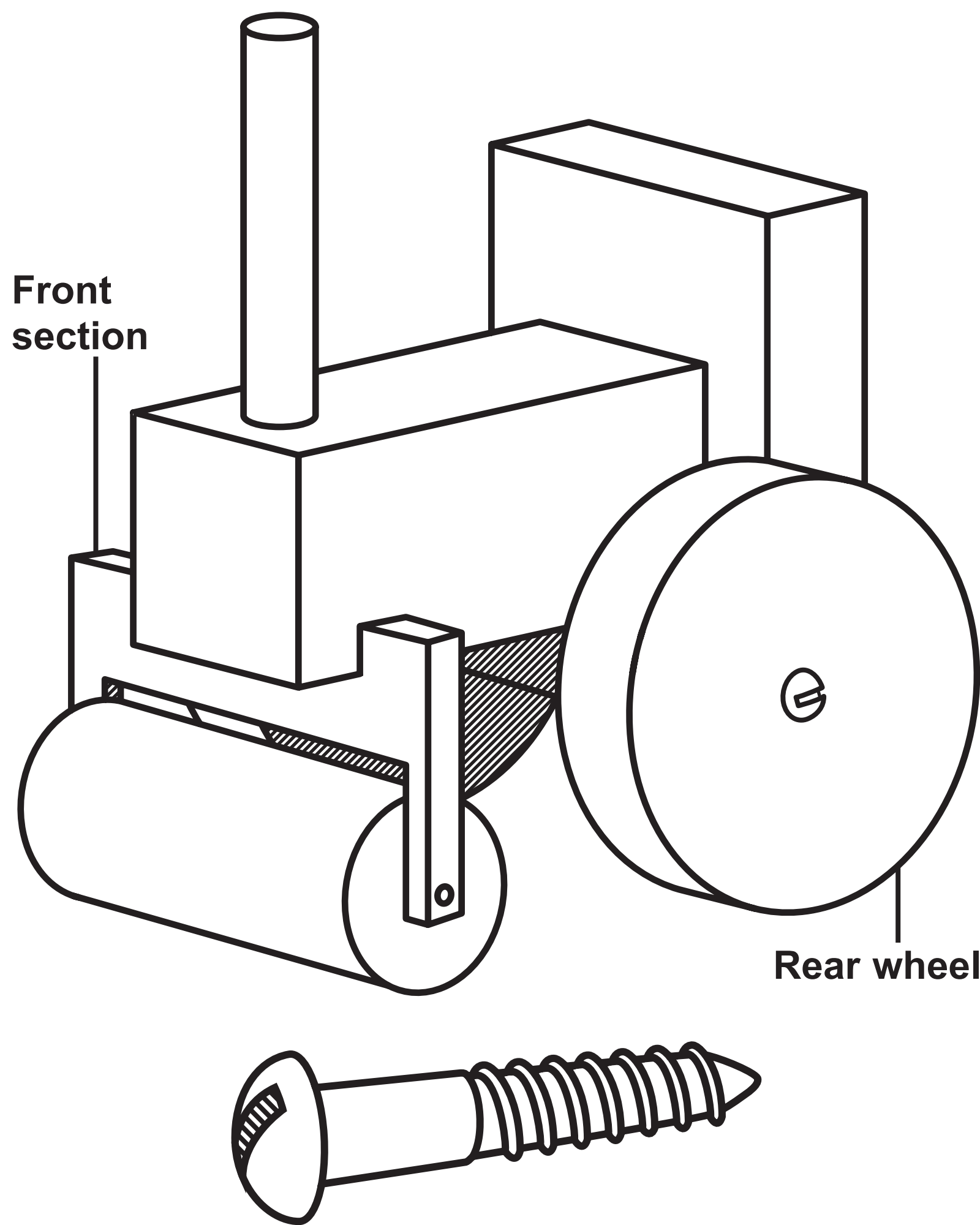
FIGURE 11

All dimensions in mm



Question 7(a)

FIGURE 12



## Question 7(b)

FIGURE 13

All dimensions in mm

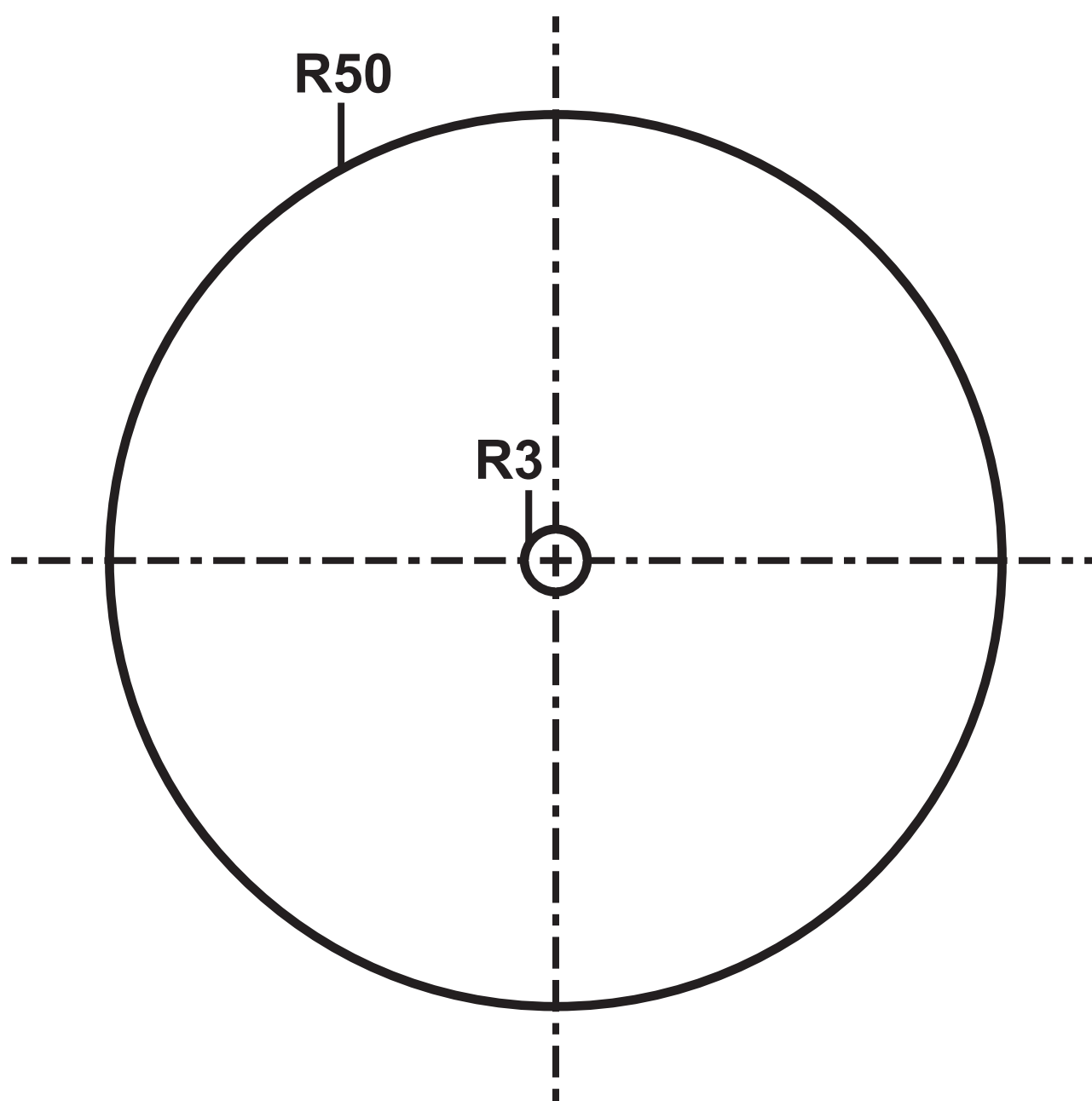
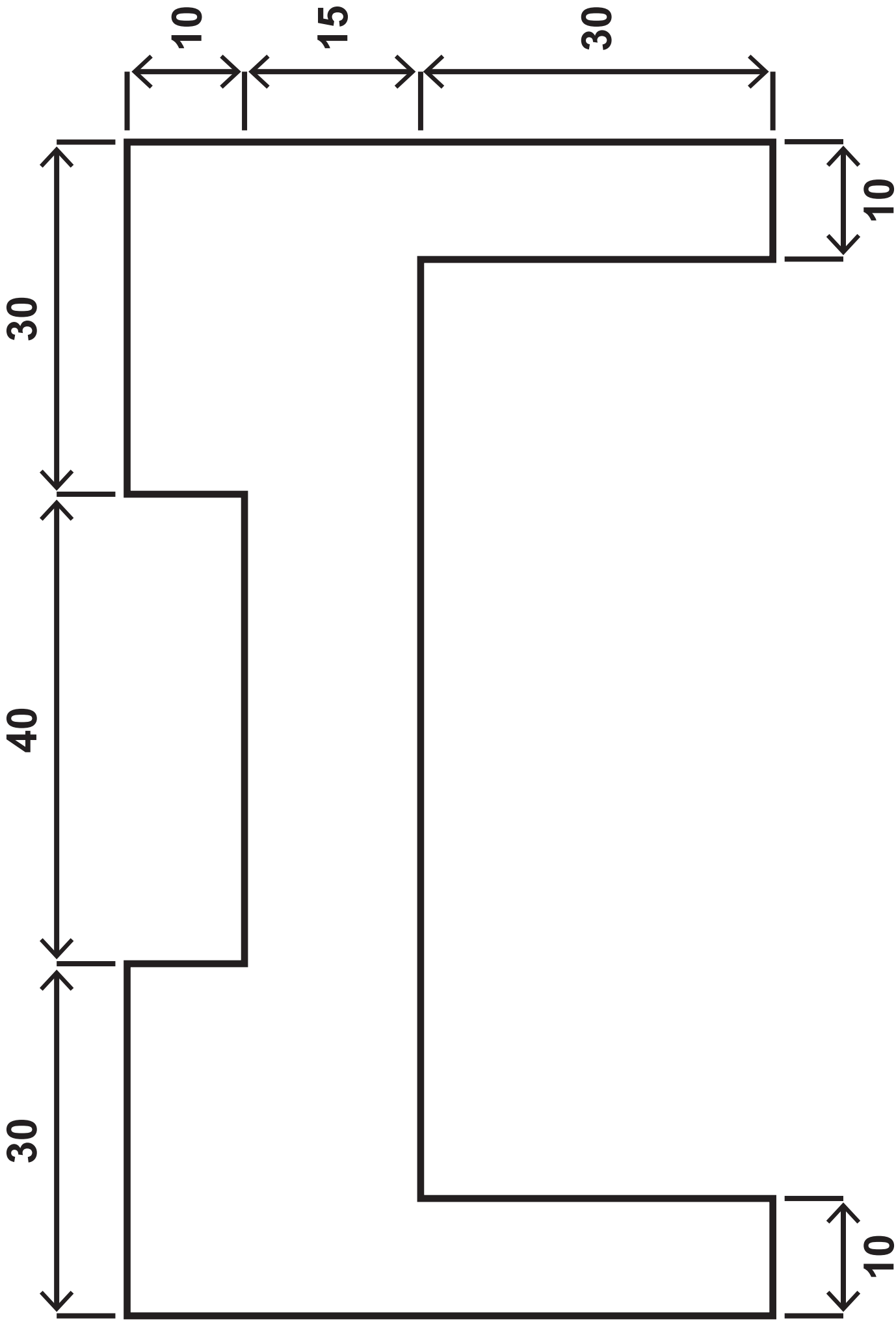


FIGURE 14

All dimensions in mm

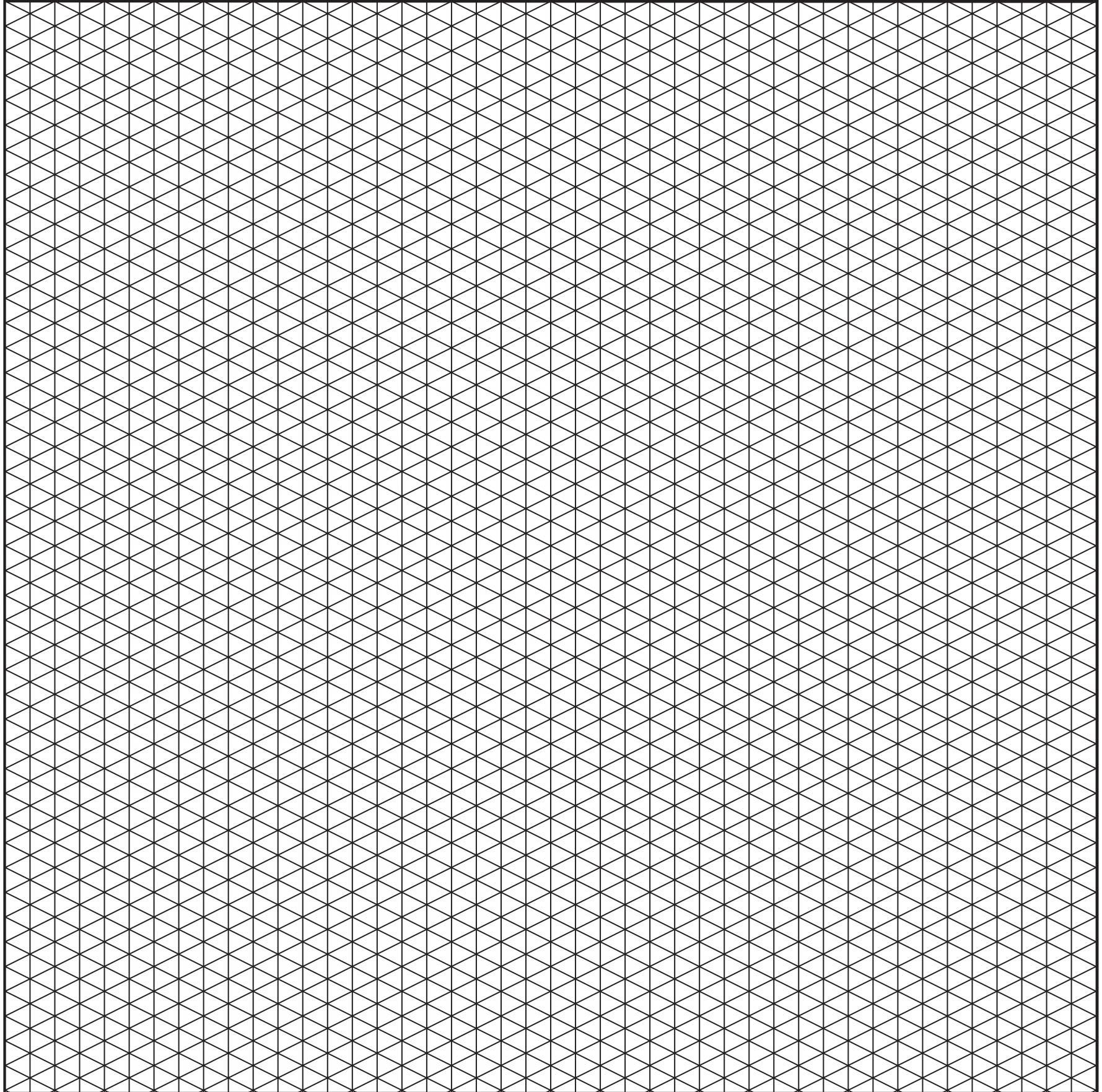
Diagram not to scale



Isometric grid provided on the next page.

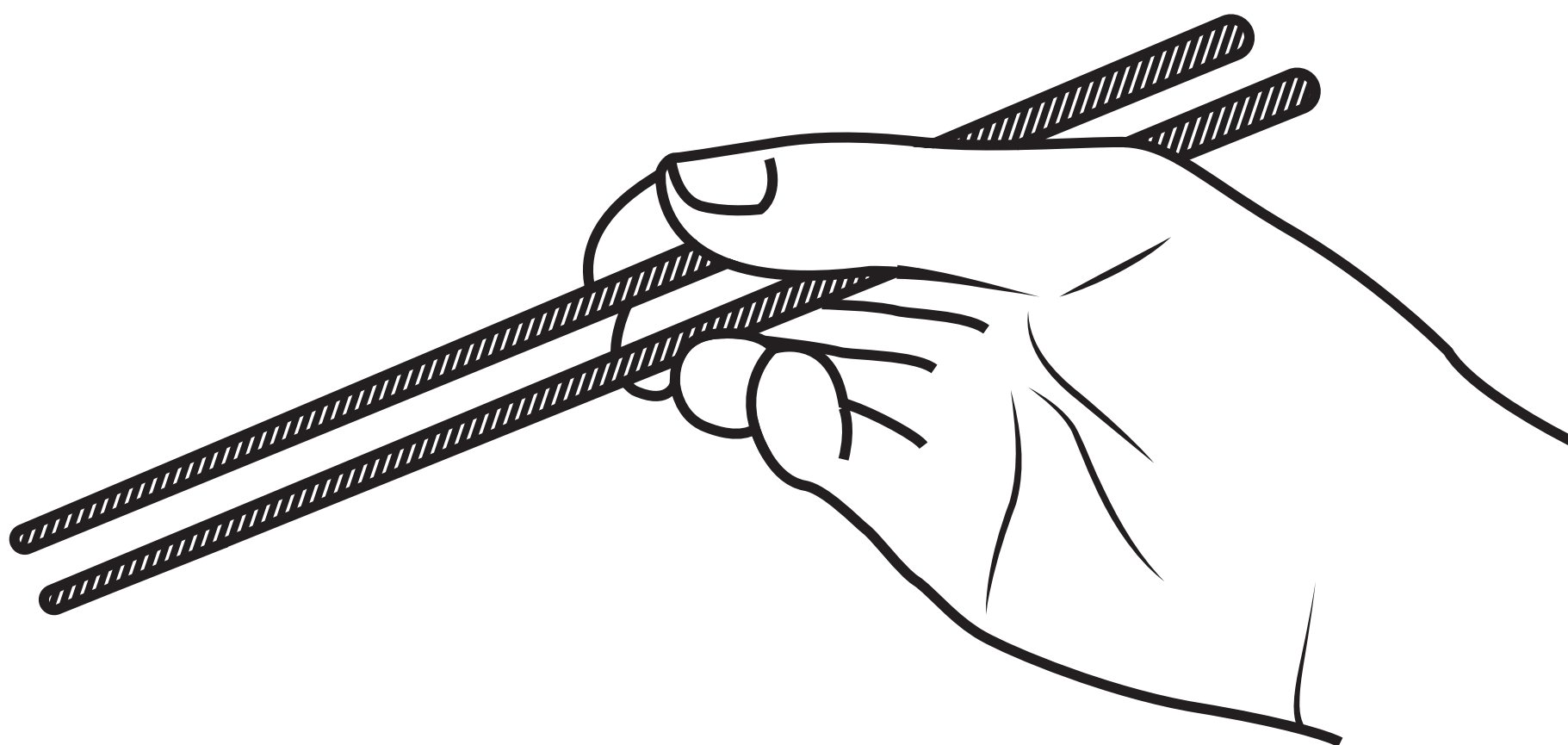
**Question 7(c) continued.**

**5mm isometric grid**



## Question 8

FIGURE 15



Question 8(d)

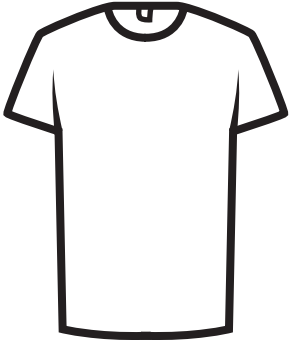
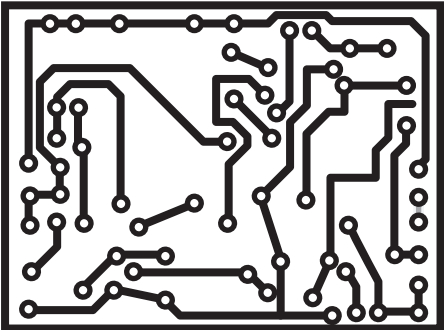
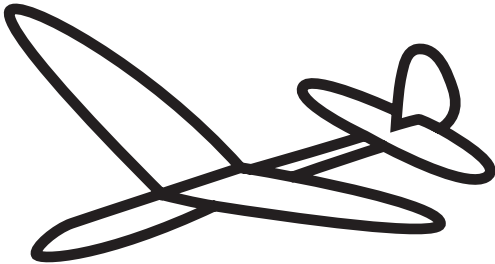

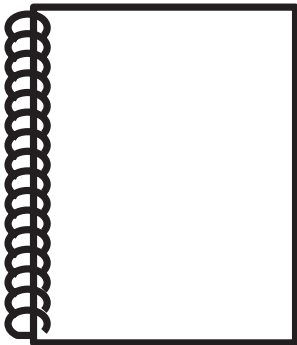
FIGURE 16

Source of birch	European forests
Country of manufacture	China
Potential market	Restaurants, takeaway restaurants and homes
Scale of production	Continuous

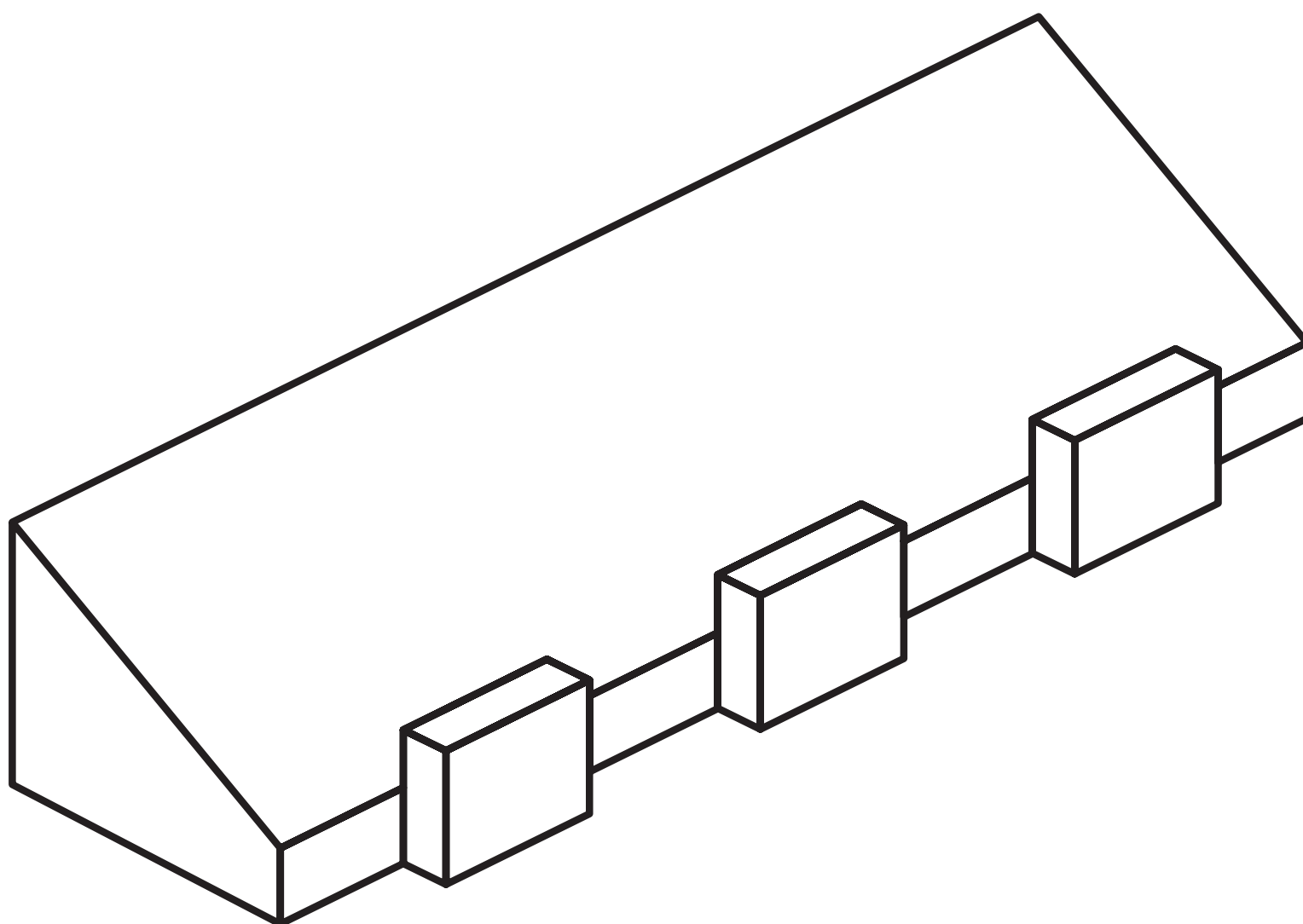


Question 1(a)

FIGURE 1

Picture of product	Material and product	Property
	Cotton T-shirt	Soft
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	Balsa wood toy plane	(ii) _____
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	Solid white board hardback book cover	(iv) _____

### Question 5(a) – Outline



**Question 7(c) continued.**

**5mm isometric grid**

