

**Pearson Edexcel Level 1/Level 2  
GCSE (9-1)**

**Friday 24 May 2019**

**Paper Reference 1DT0/1C**

**Design and Technology  
Component 1: Polymers**

**DIAGRAM BOOKLET**

**Write your name here**


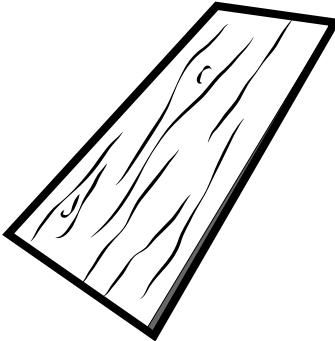
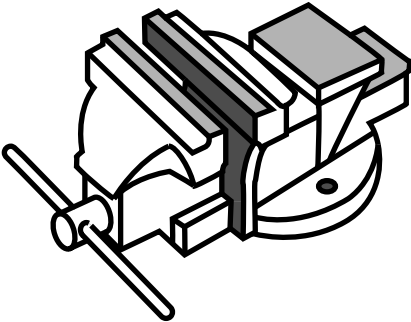

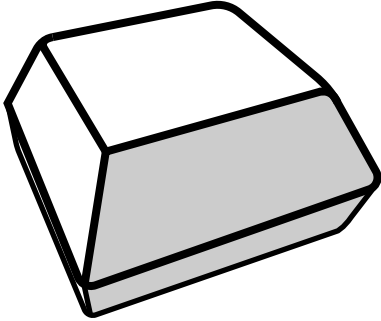
<b>Candidate Surname</b>
--------------------------

<b>Other names</b>
--------------------

<b>Centre No.</b>					
-------------------	--	--	--	--	--

<b>Candidate No.</b>				
----------------------	--	--	--	--

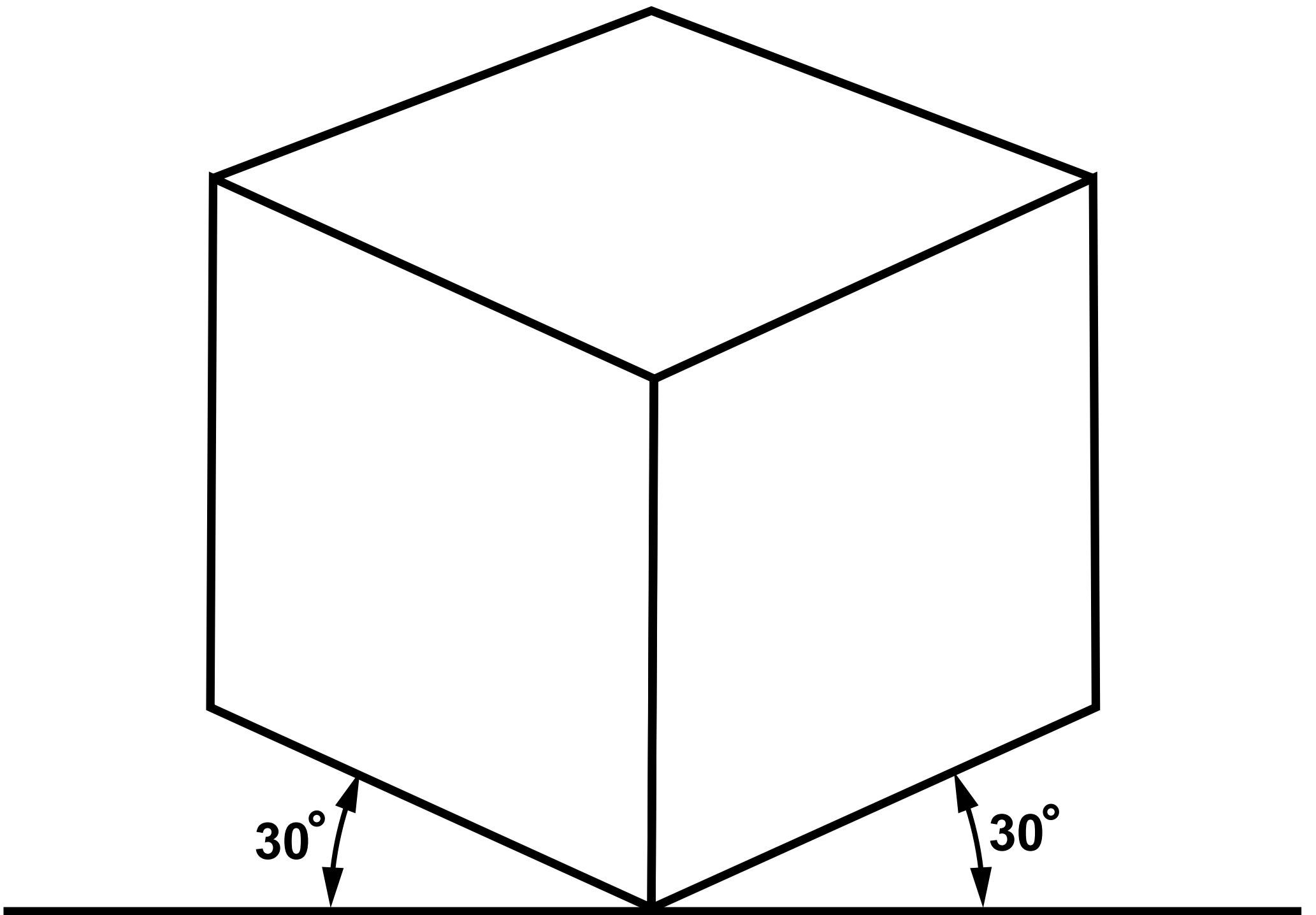
FIGURE 1

Product	Product material	Property
	Biodegradable plastic shopping bag	Will degrade in soil
	Cedar roof tile	(1) (i) _____
	Cast iron workshop vice	(1) (ii) _____
	Polyester raincoat	(1) (iii) _____
	Solid white board burger package	(1) (iv) _____

**FIGURE 2**

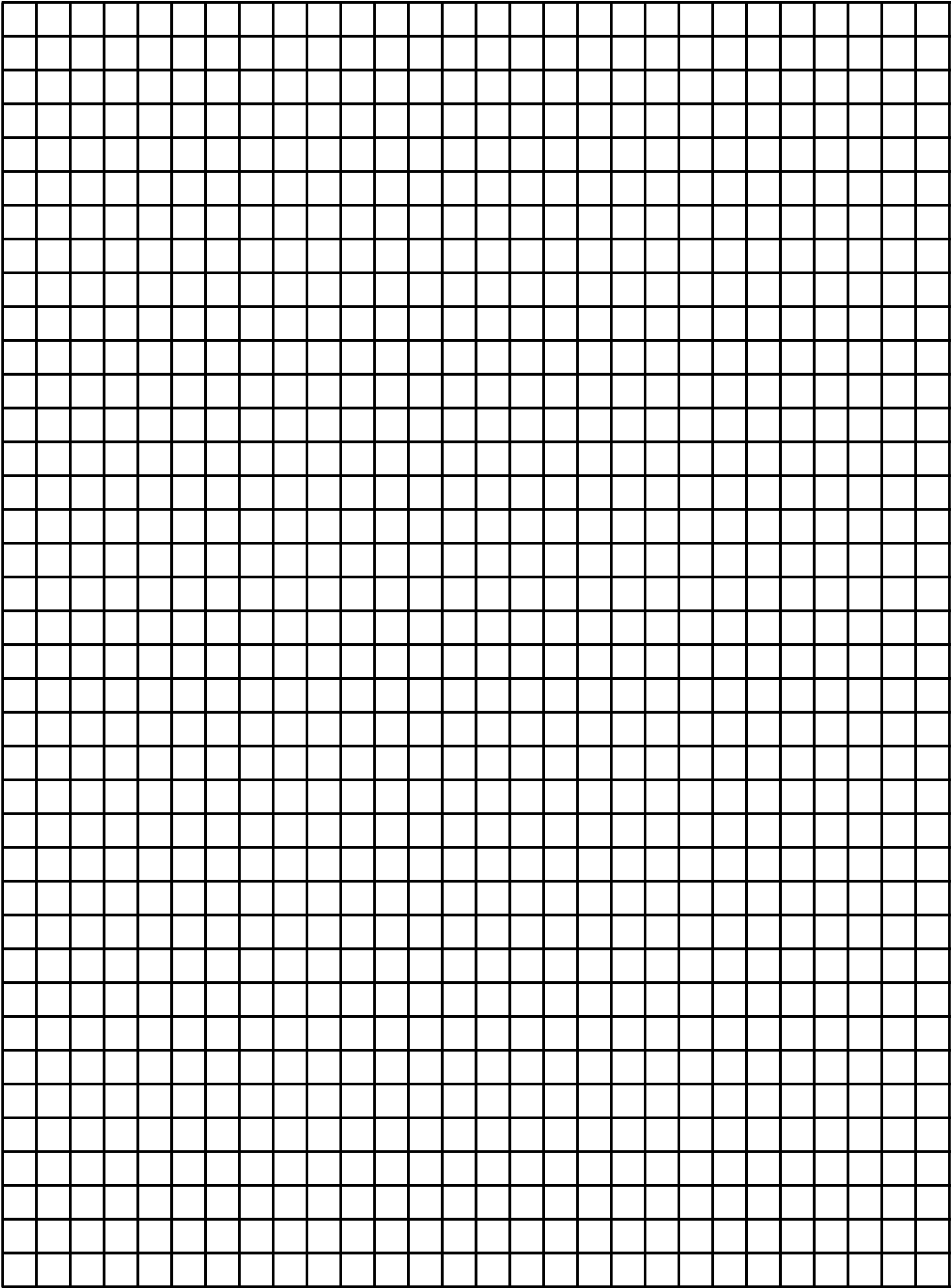
<b>YEAR</b>	<b>NUMBER OF BAGS GIVEN AWAY (BILLIONS)</b>
<b>2014</b>	<b>7.6</b>
<b>2015</b>	<b>5.4</b>

**FIGURE 3**

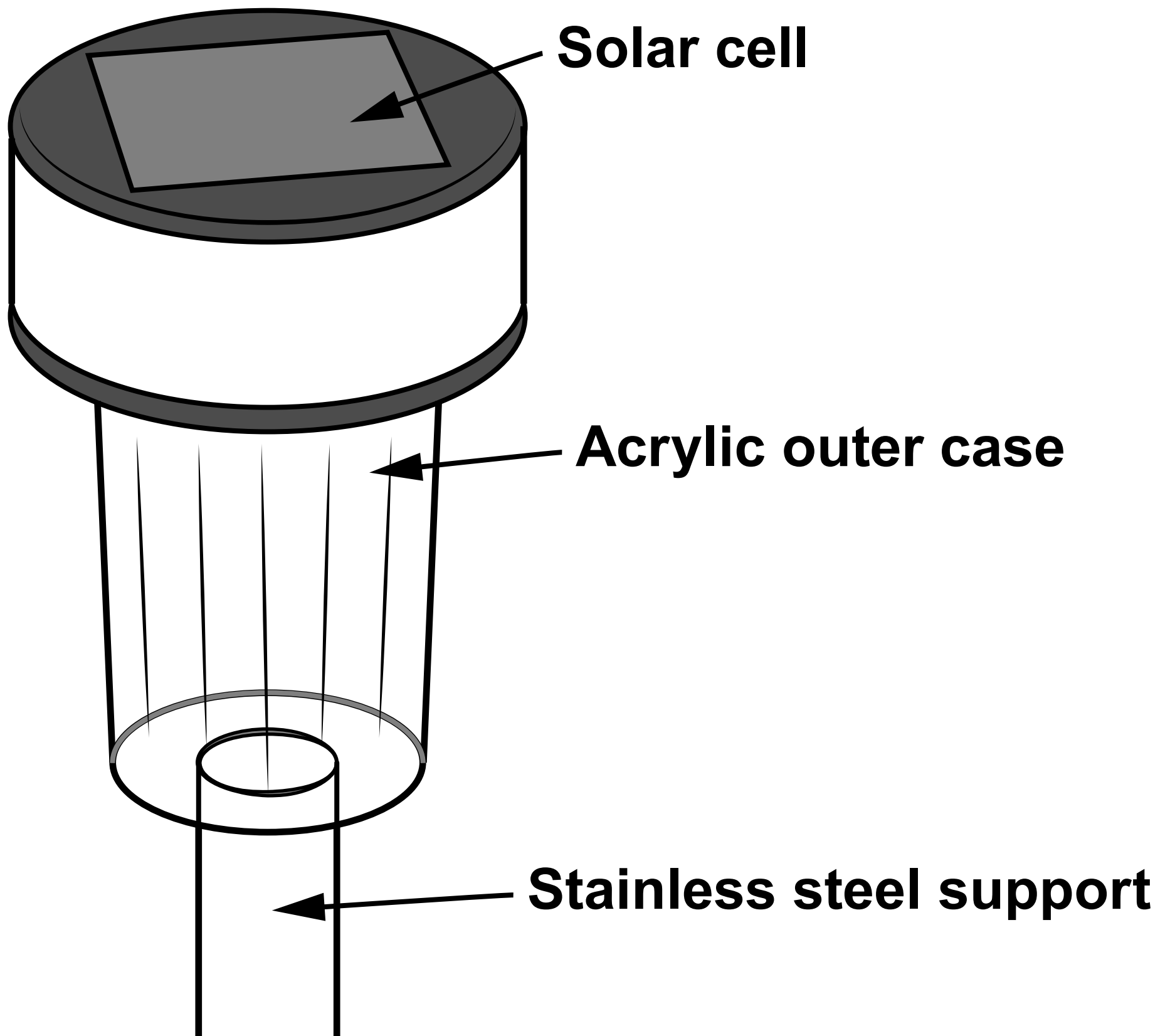


**Question 2 (c)**

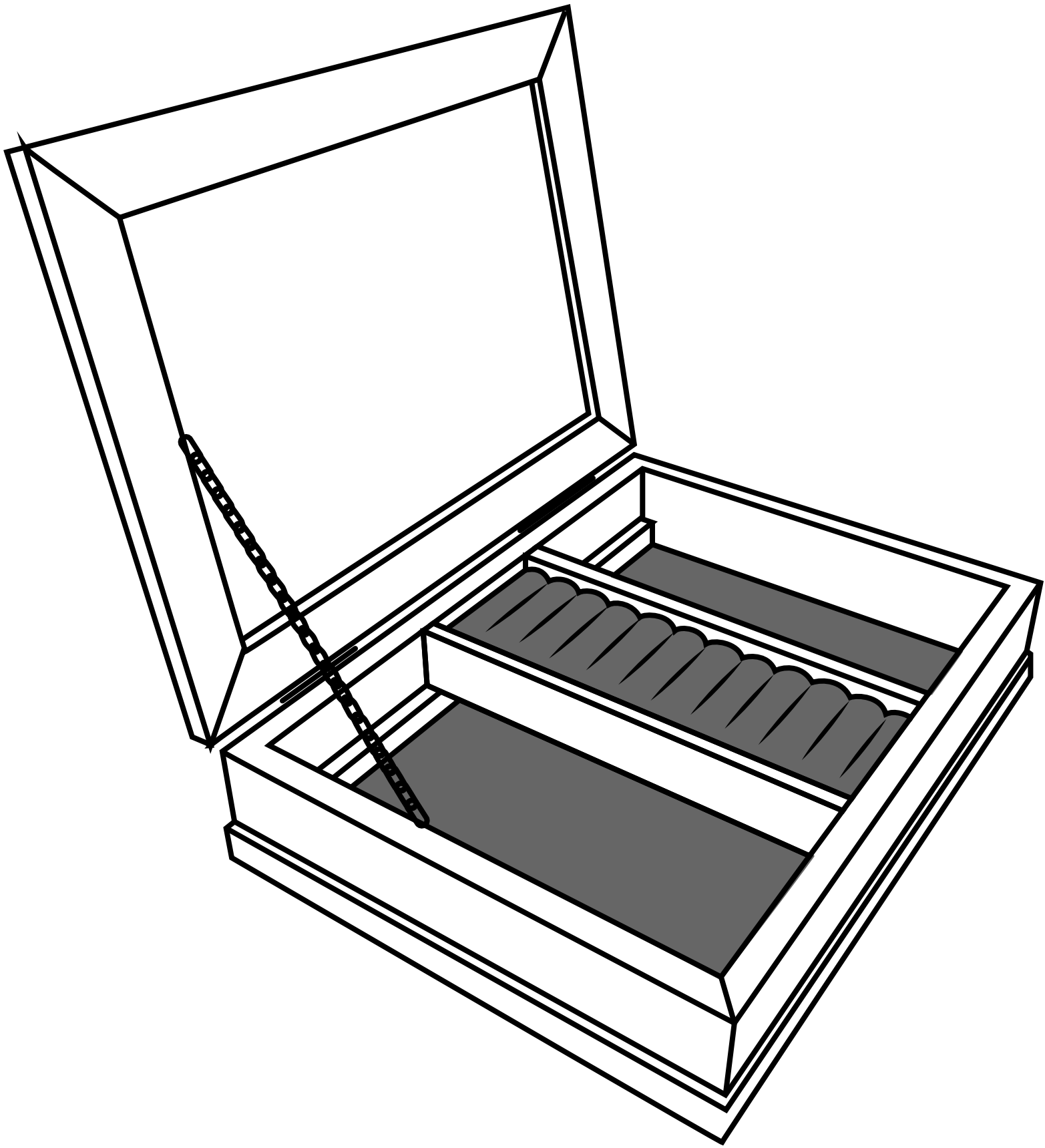
**EACH SQUARE REPRESENTS 10 mm**



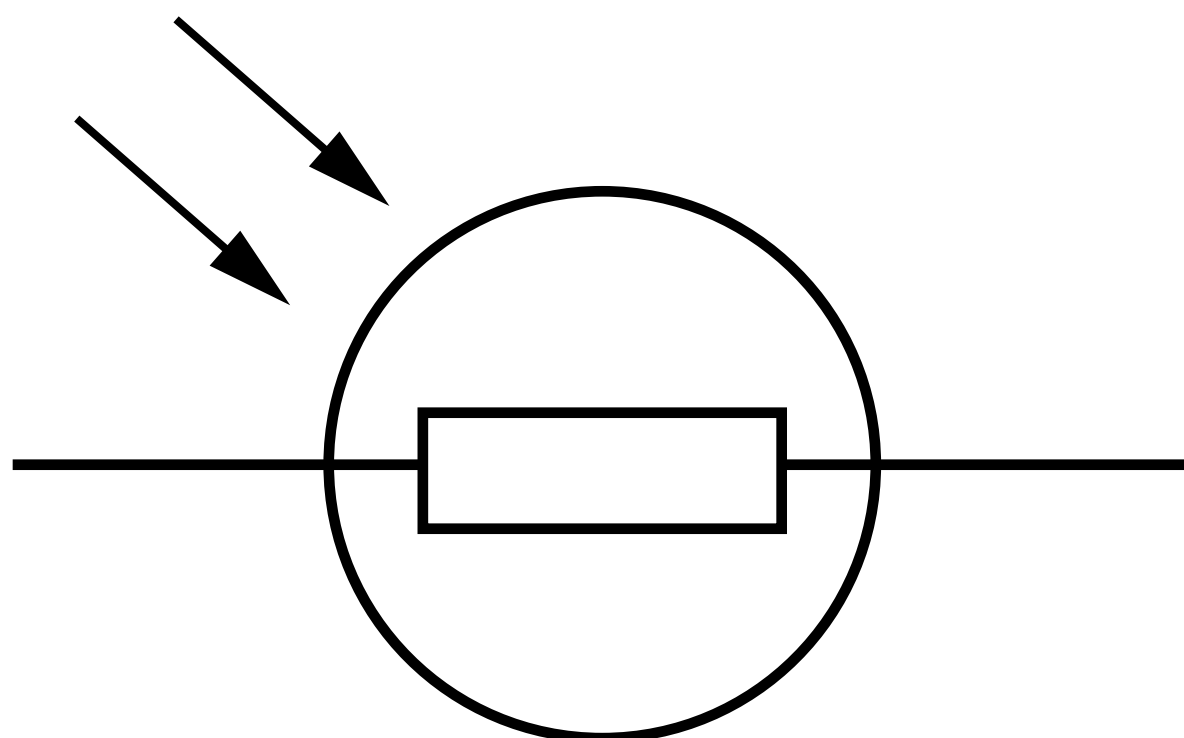
**FIGURE 4**



**FIGURE 5**

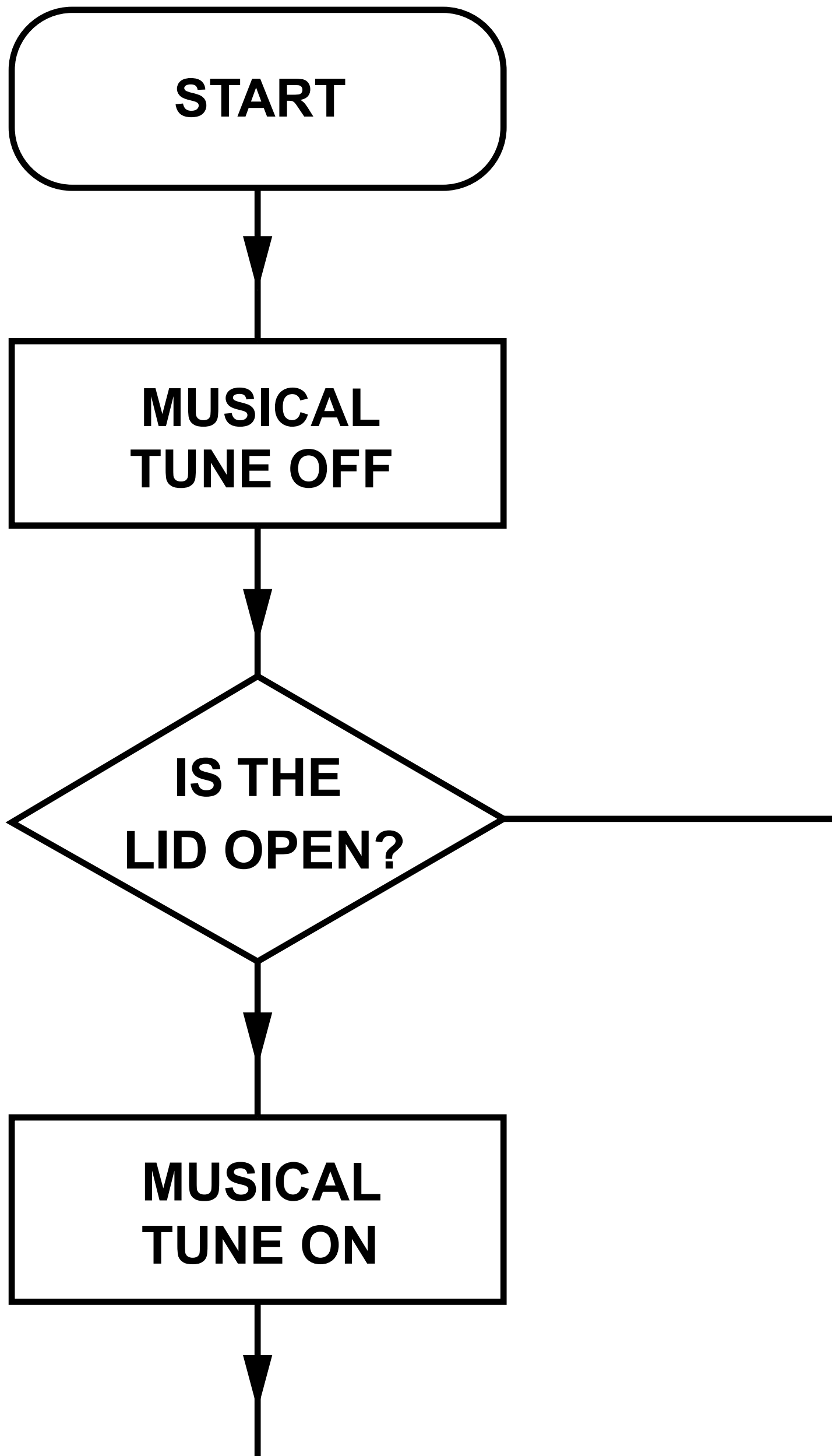


**FIGURE 6**



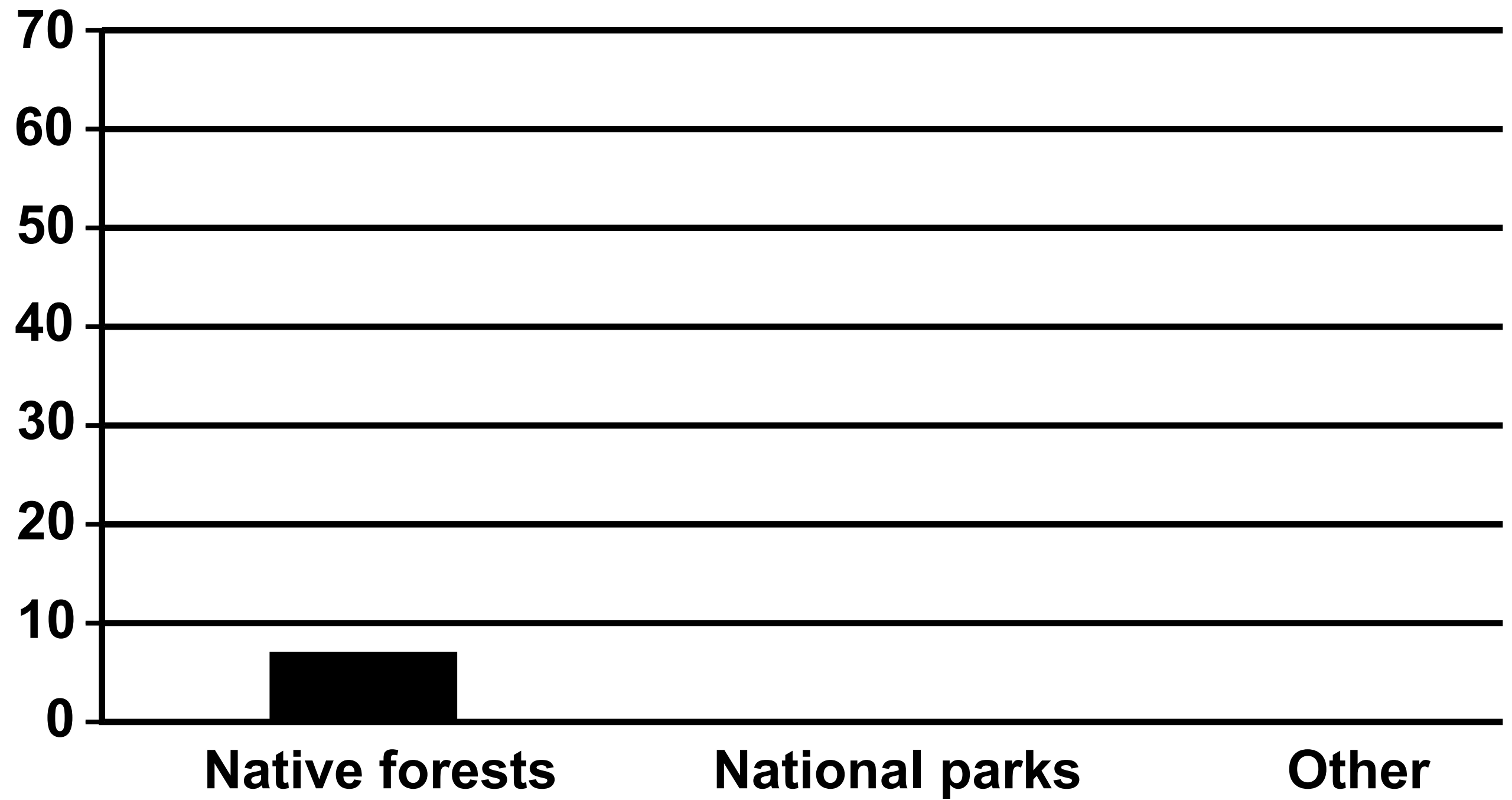


**FIGURE 7**

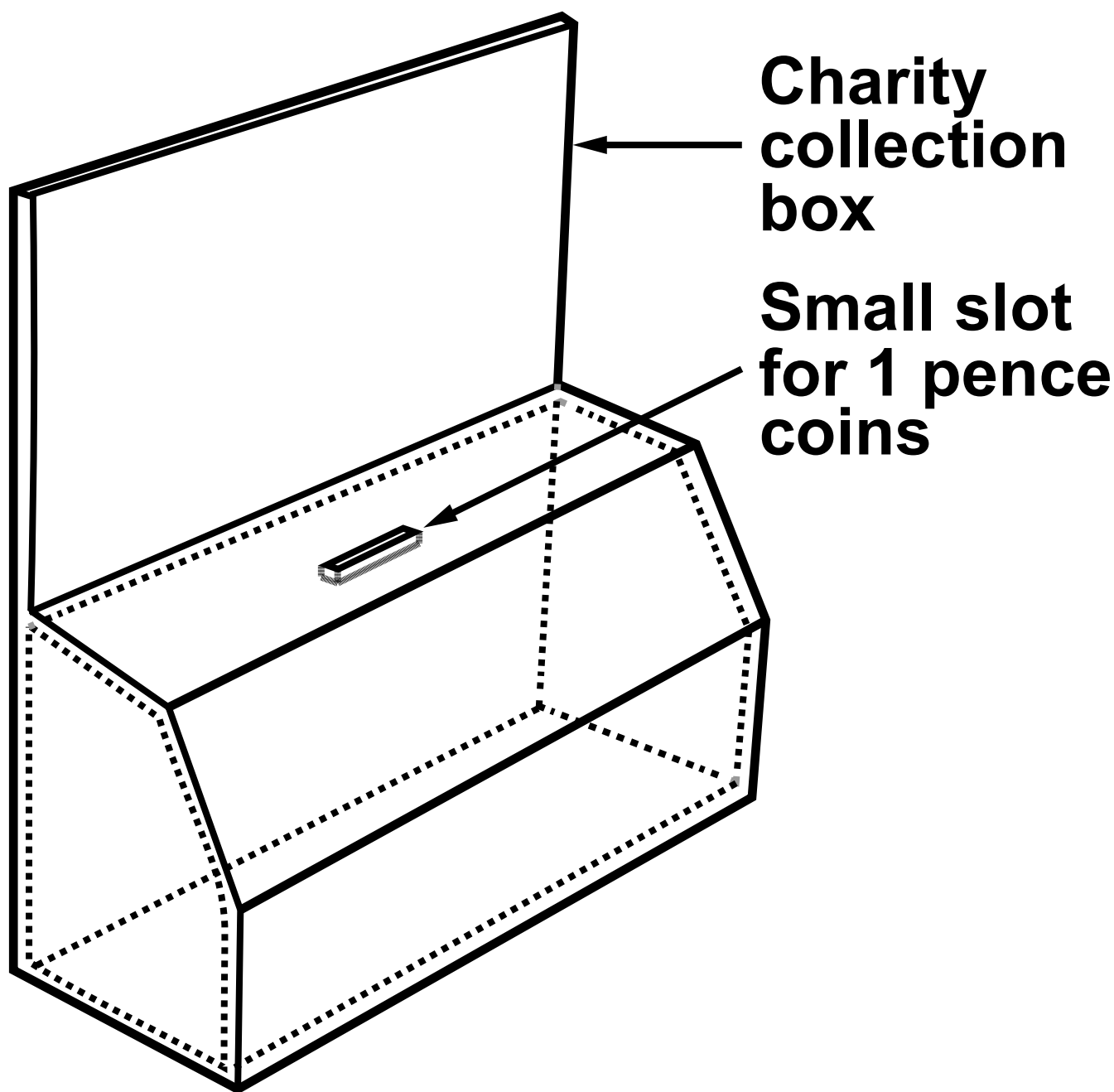


## Question 4 (b)

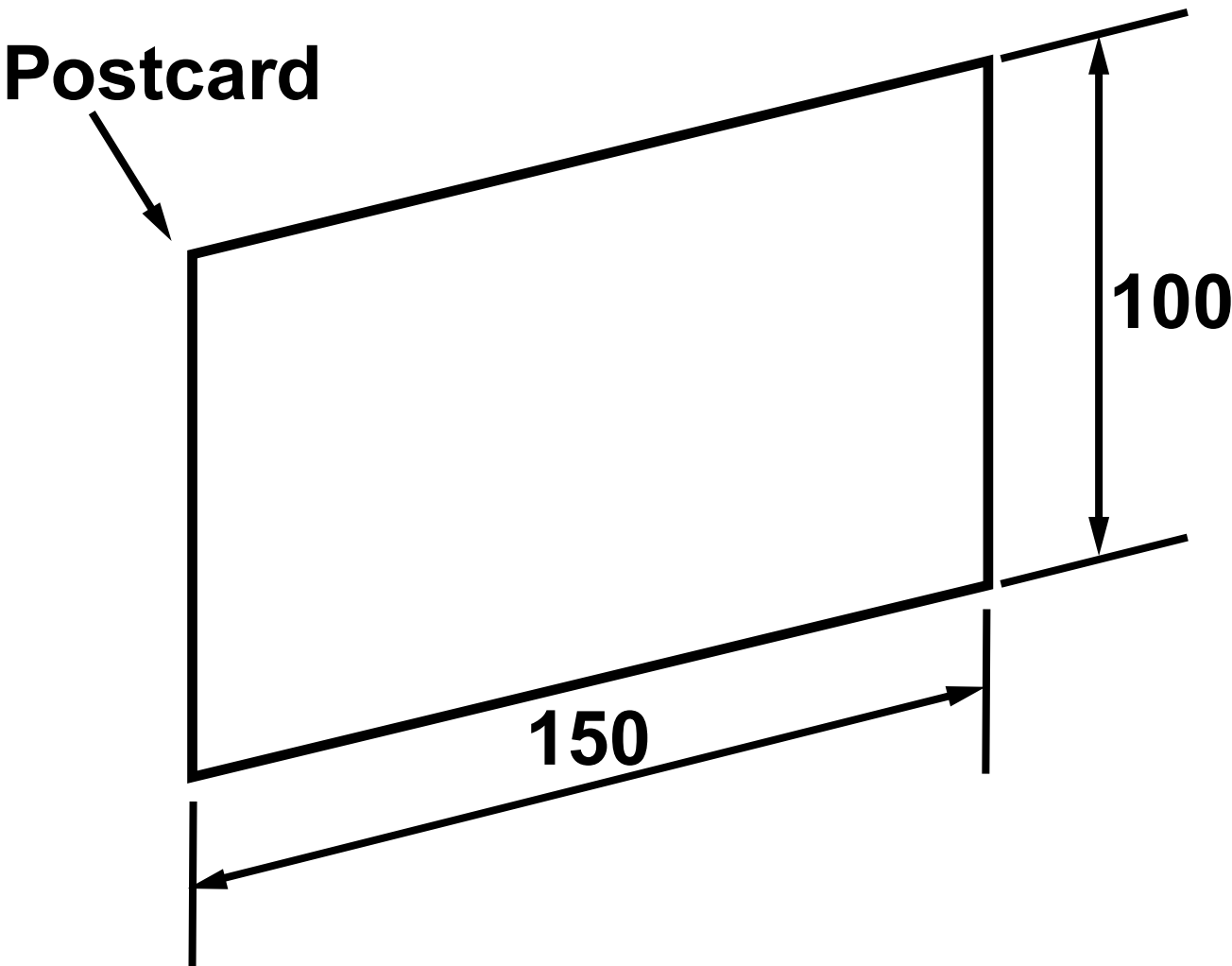
Percentage area



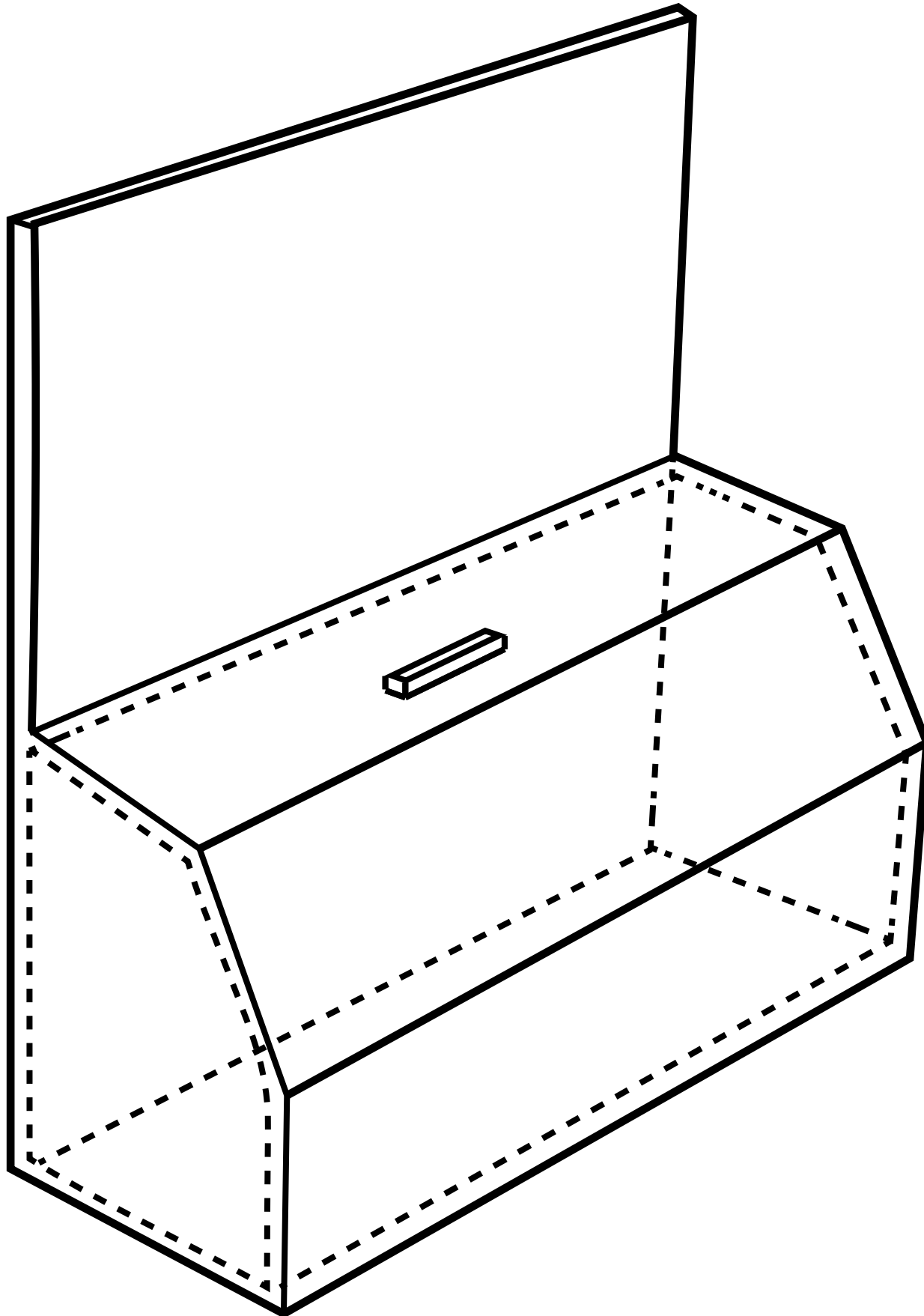
**FIGURE 9**



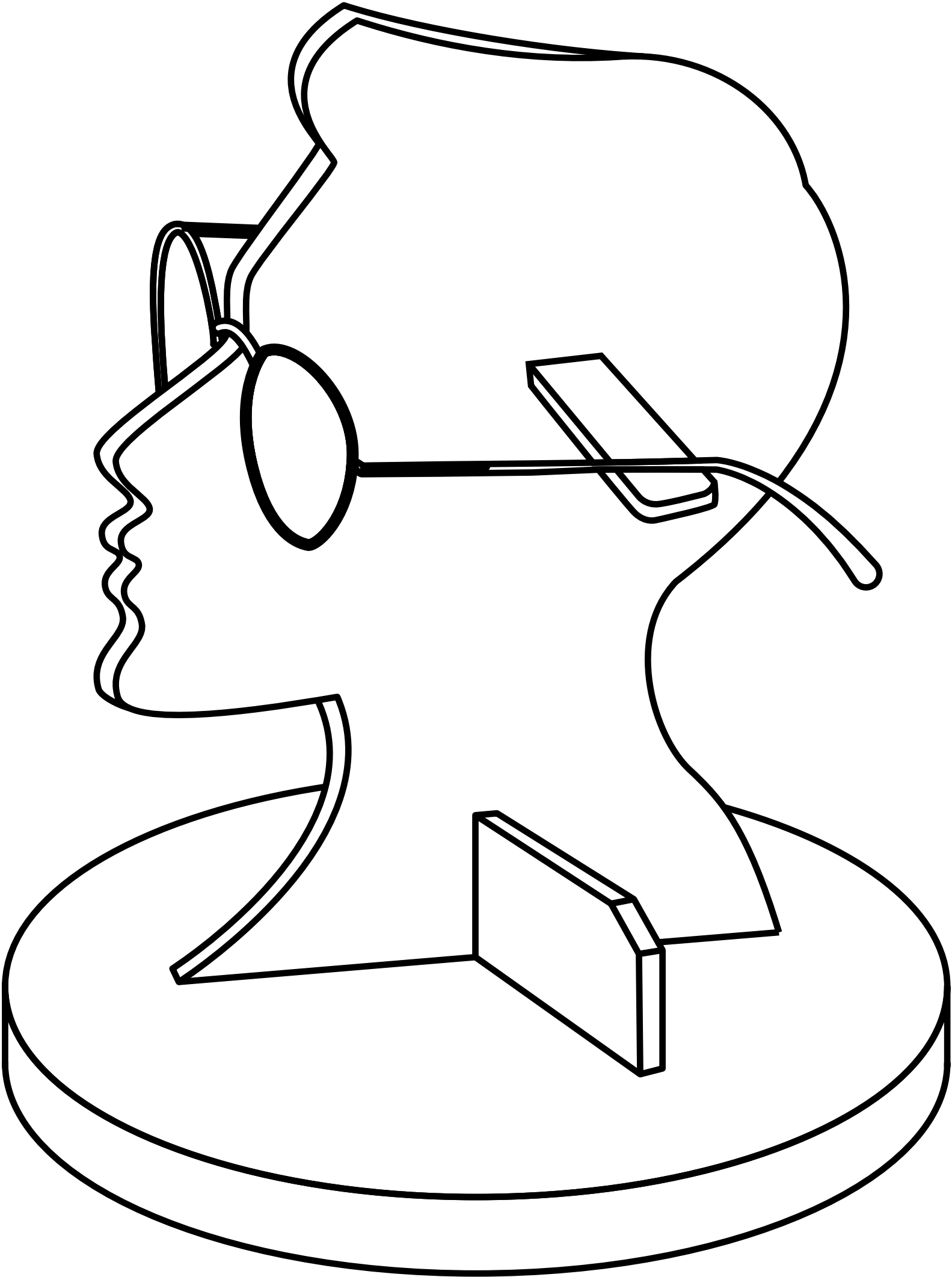
**Additional information**  
**All dimensions in mm**



## Question 5 (a)

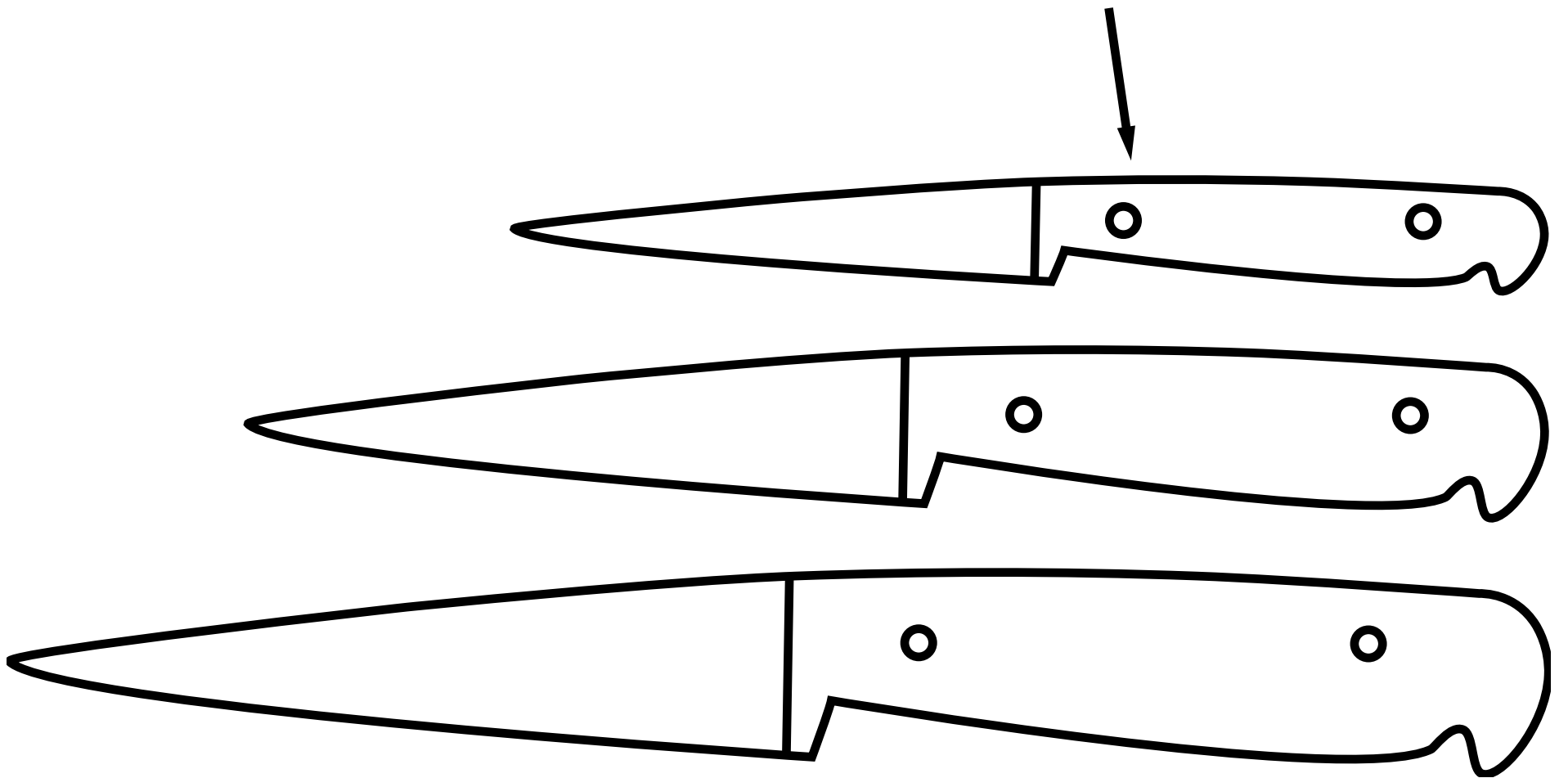


**FIGURE 10**



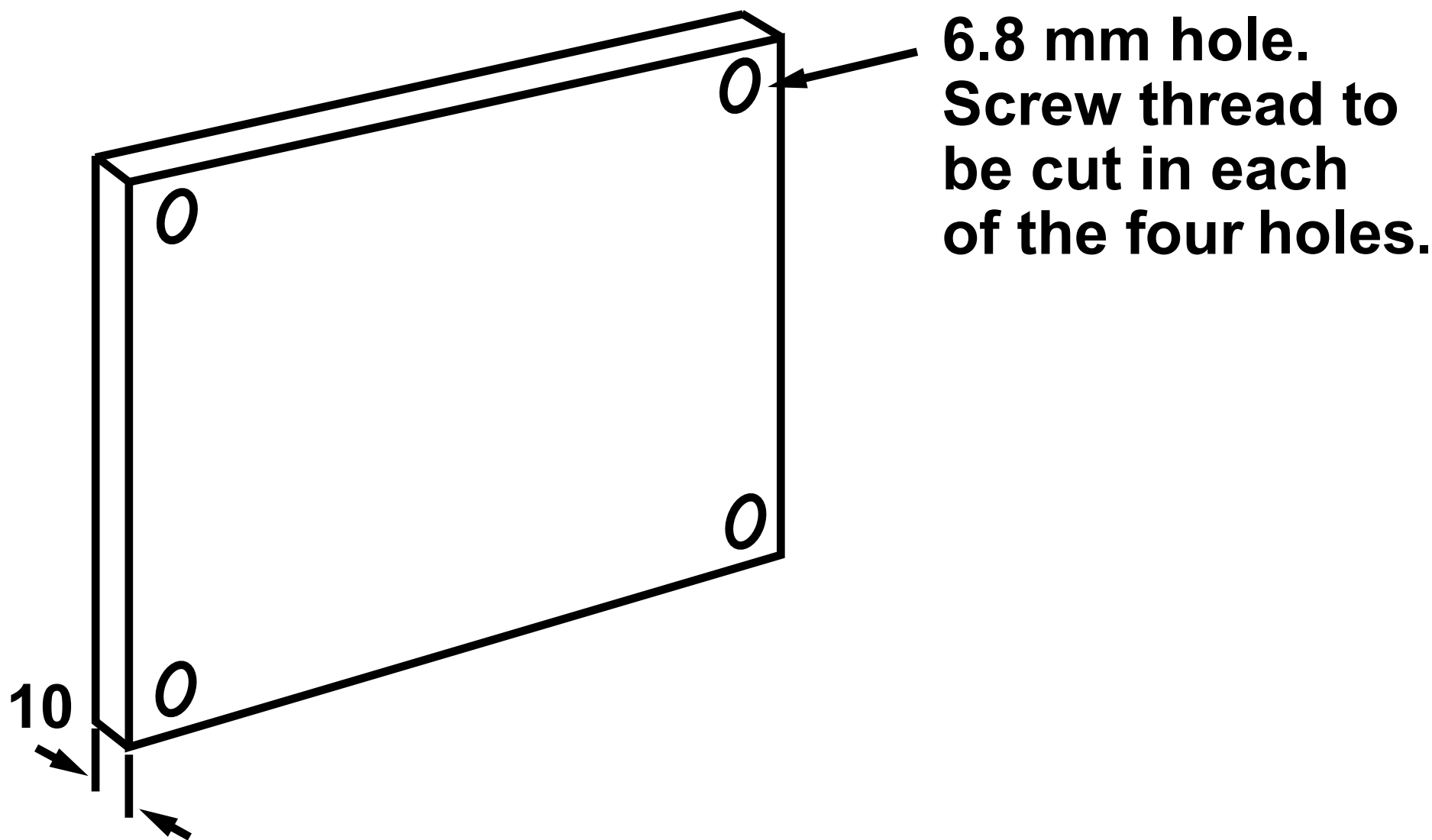
**FIGURE 11**

**Sustainable polymer  
handle**



**FIGURE 12**

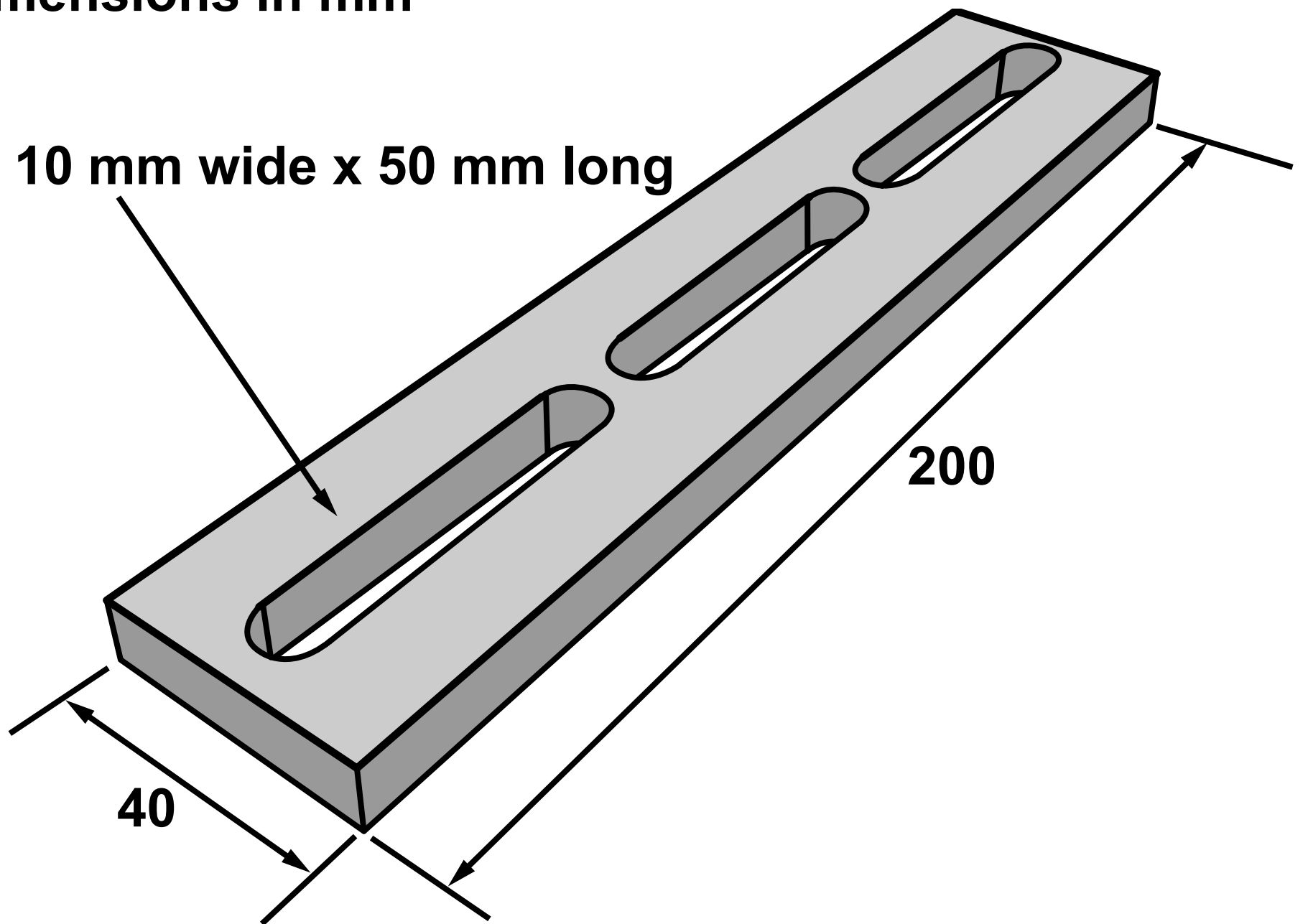
**All dimensions in mm**



**FIGURE 13**

**All dimensions in mm**

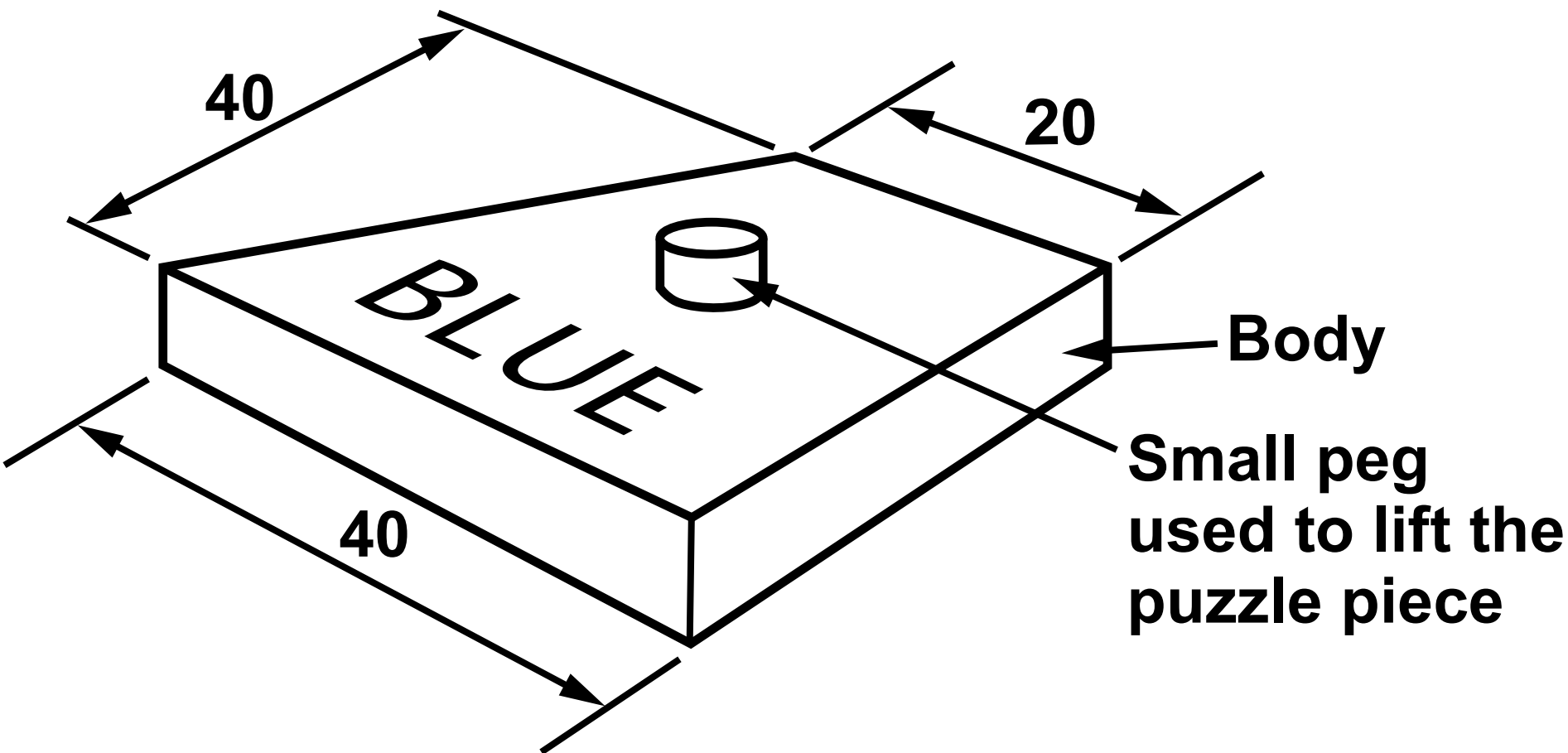
**3 slots, 10 mm wide x 50 mm long**





**FIGURE 14**

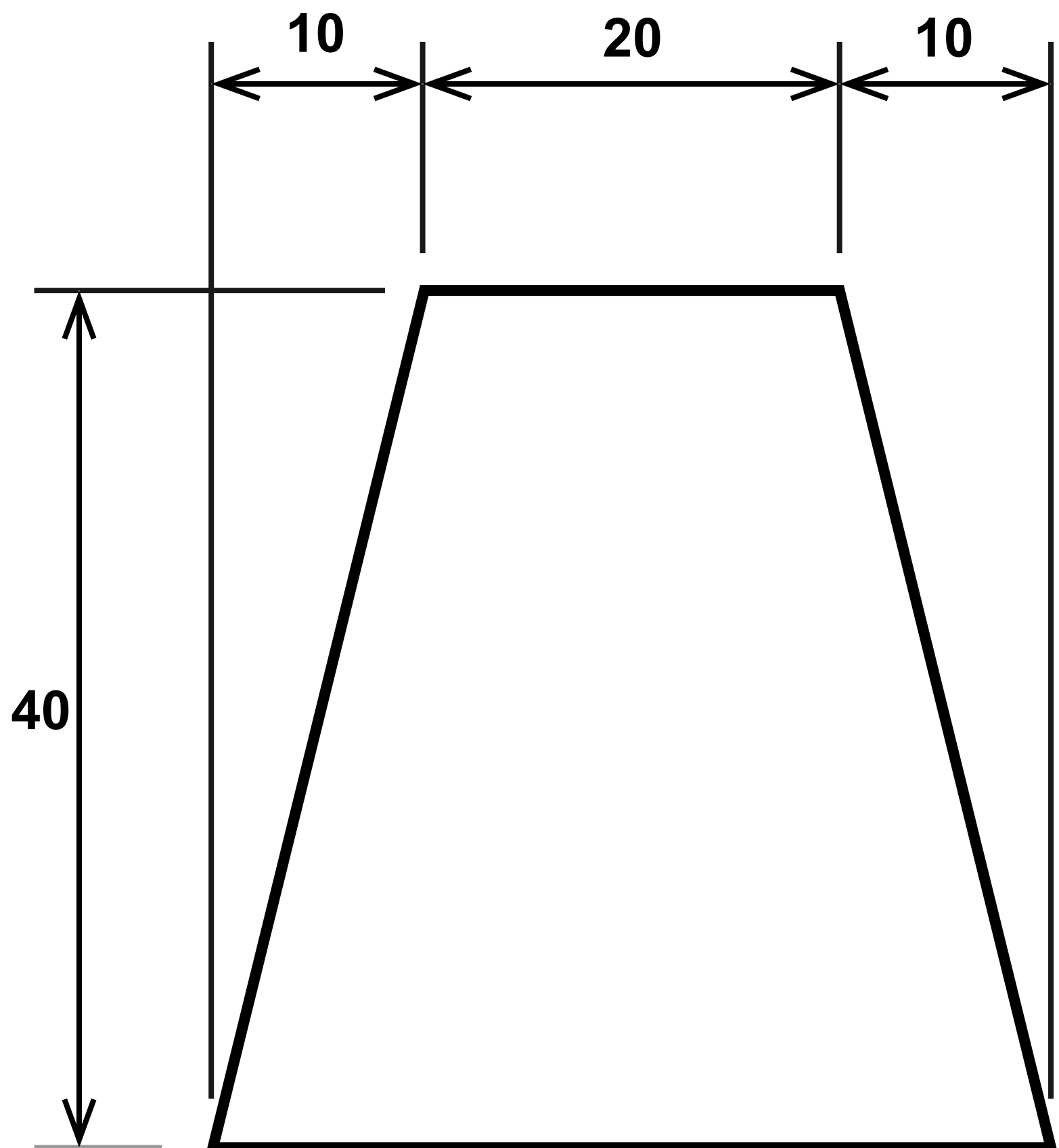
**All dimensions in mm**



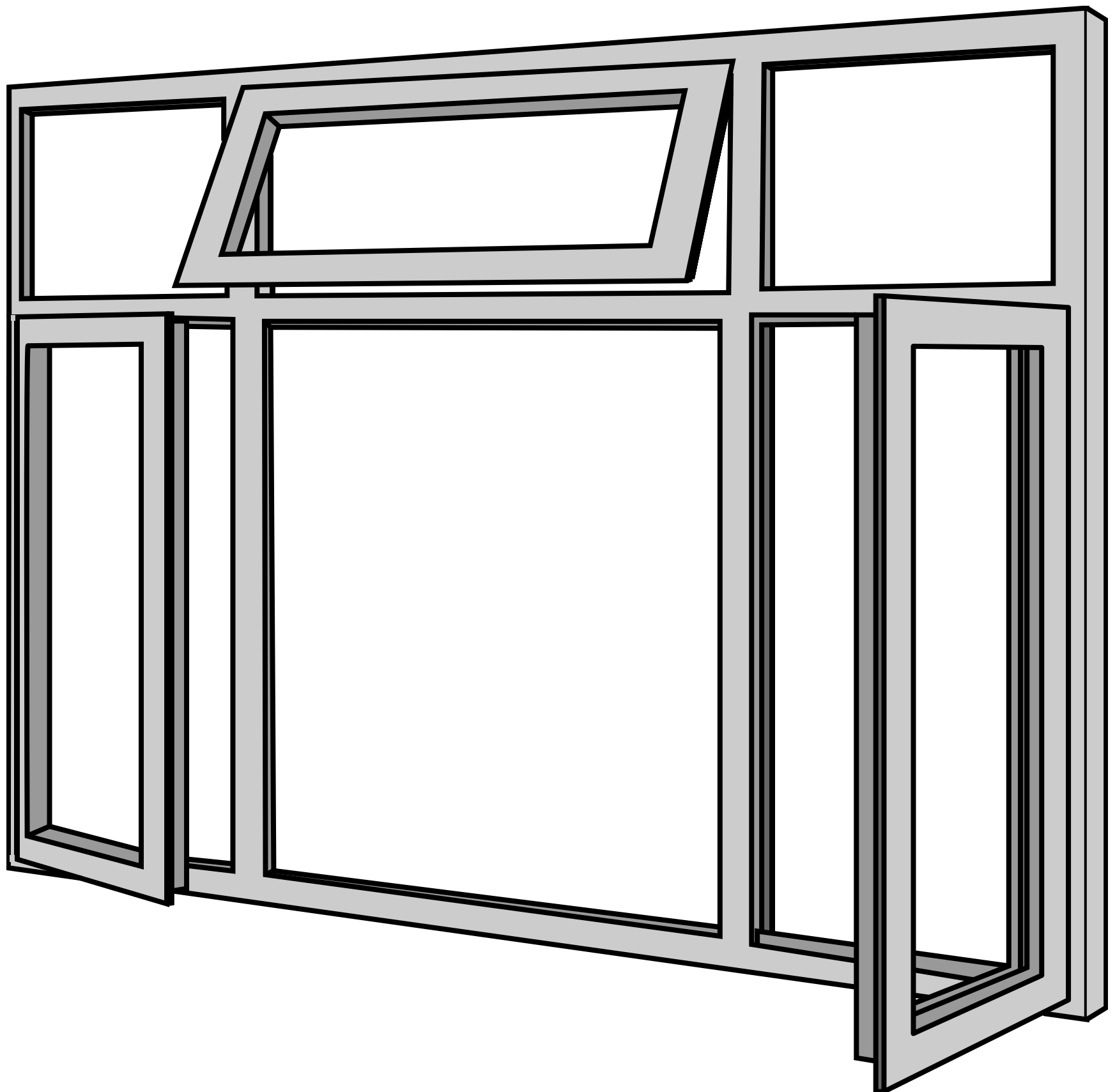
**FIGURE 15**

**All dimensions in mm**

**Diagram not to scale**



**FIGURE 16**



**FIGURE 17**

<b>SCALE OF PRODUCTION</b>	<b>Mass</b>
<b>MATERIAL</b>	<b>PVC</b>
<b>MATERIAL SOURCE</b>	<b>Russia, UAE and Saudi Arabia</b>
<b>SIZE</b>	<b>Various but up to 1.2m high and 2.4m long</b>
<b>SURFACE TREATMENT</b>	<b>Additives</b>