

Design and Technology  
COMPONENT 1: Systems

Tuesday 18 June 2024 – Morning

Time: 1 hour 45 minutes

Diagram Booklet

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

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.

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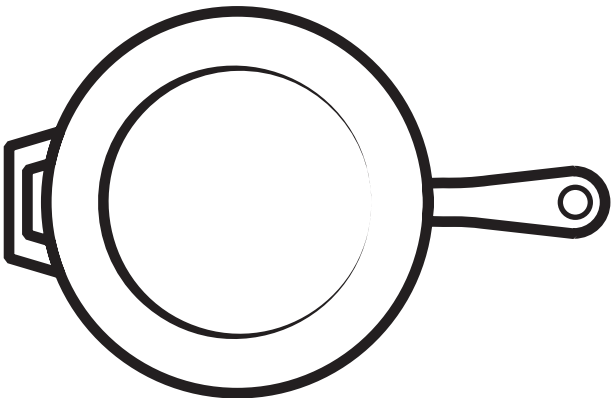
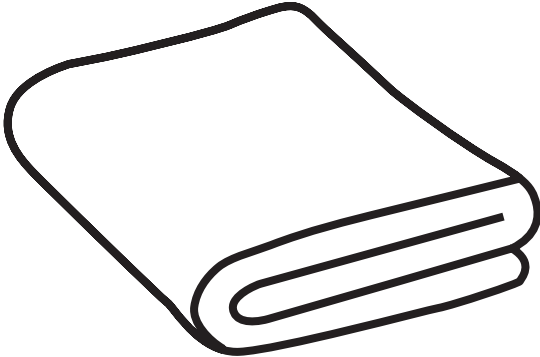
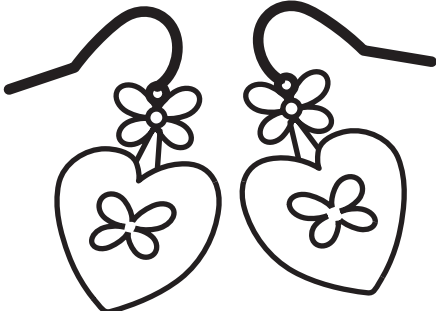

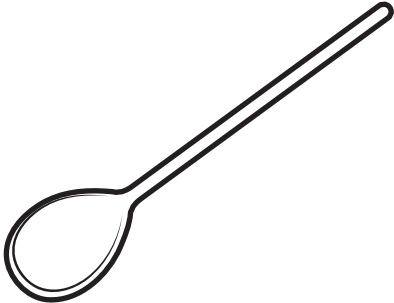
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Question 1(a)

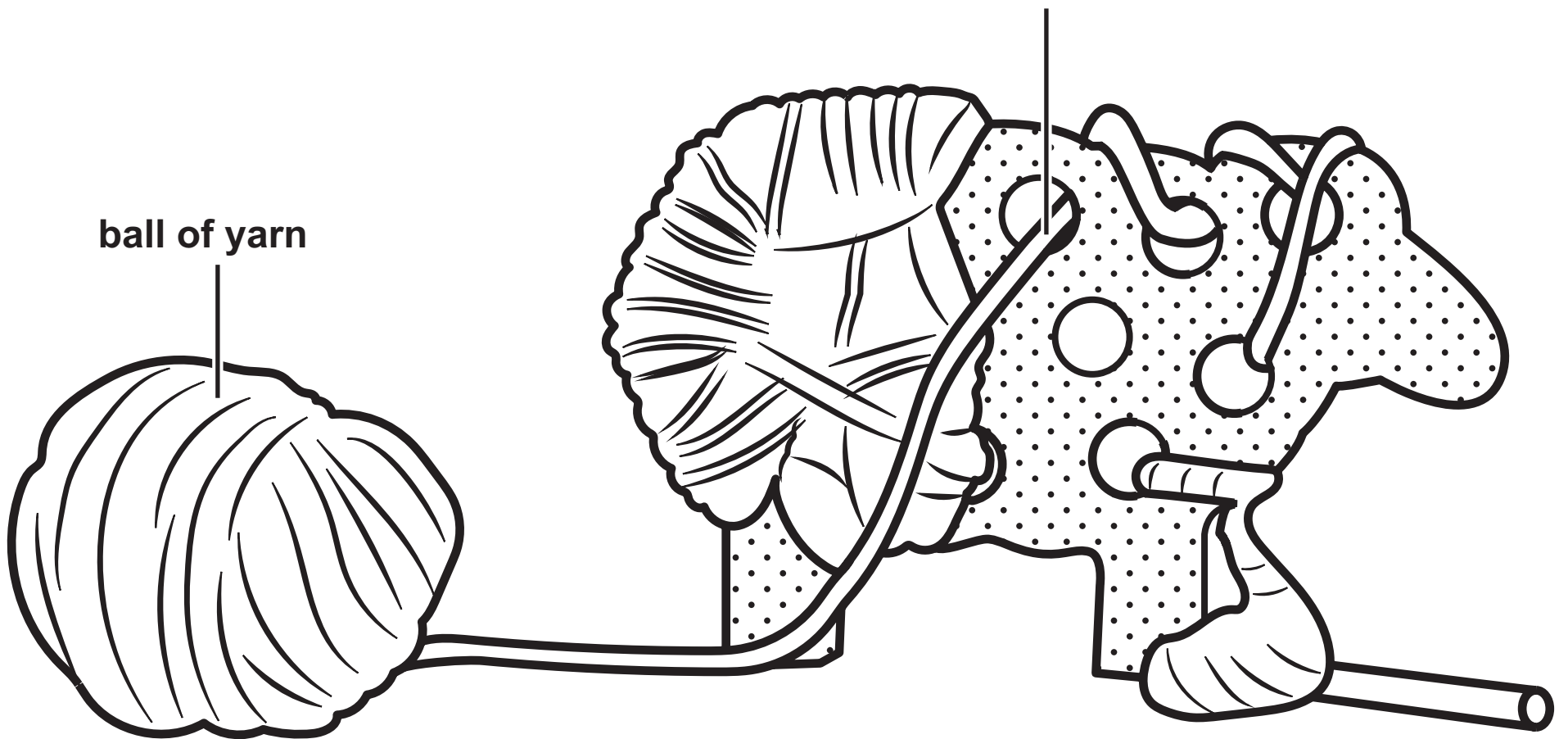
FIGURE 1

Picture of product	Material and product	Property
	Cast iron frying pan	Hard
	Cotton bath towel	(i)  <hr/> (1 mark)
	Polyester resin earrings	(ii)  <hr/> (1 mark)
	Copier paper	(iii)  <hr/> (1 mark)
	Beech cooking spoon	(iv)  <hr/> (1 mark)

## Question 2

FIGURE 2

yarn threaded through the toy sheep



Question 2(d)

FIGURE 3

Animal	Number of votes	Percentage of votes (%)
Cat	165	55
Dog	75	25
Rabbit	_____	15
Mouse	_____	5
TOTAL	300	100

**Question 2(d)(i) – Blank**

Question 2(d)(ii)

FIGURE 4

Percentage of votes cast

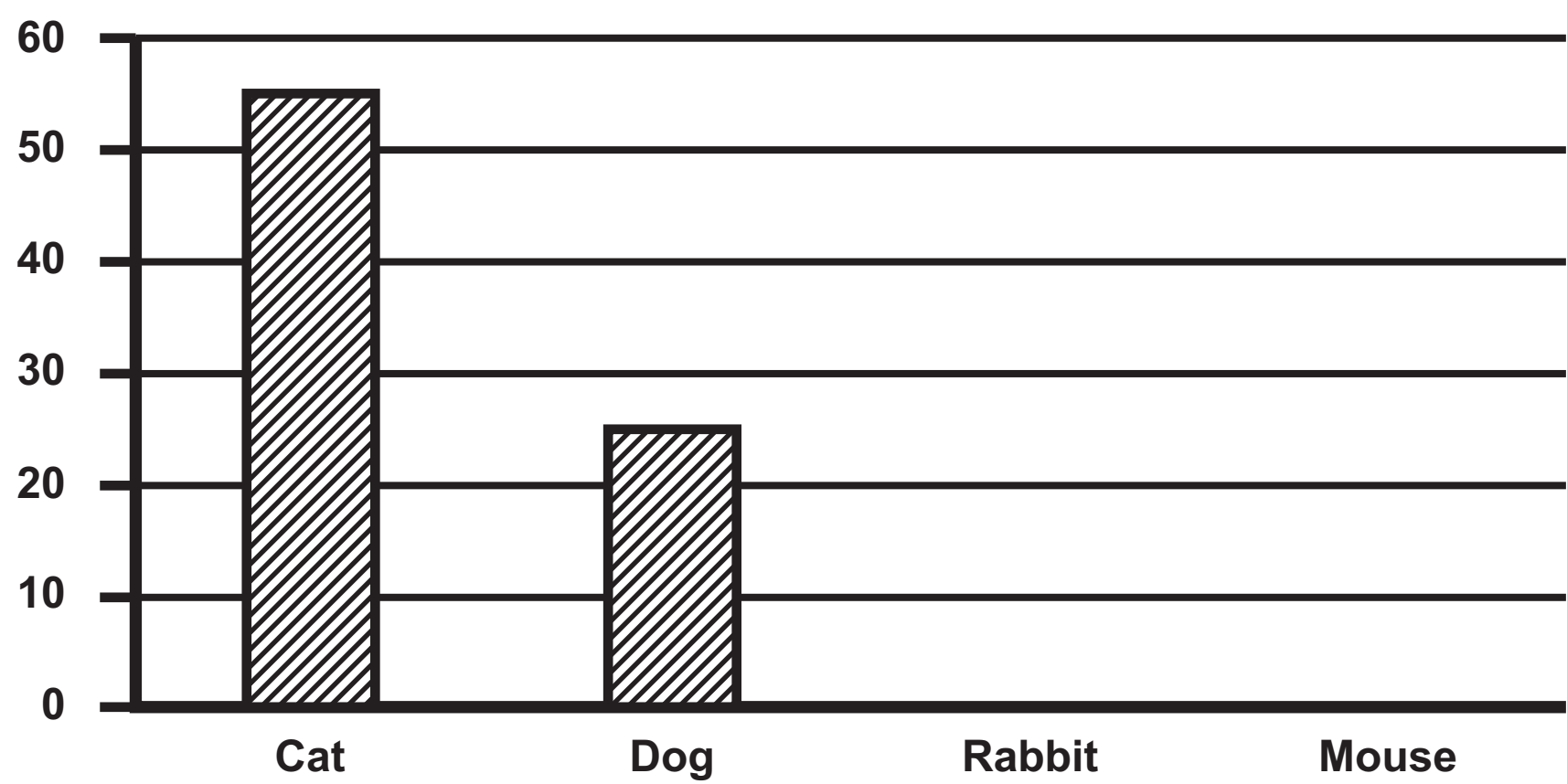
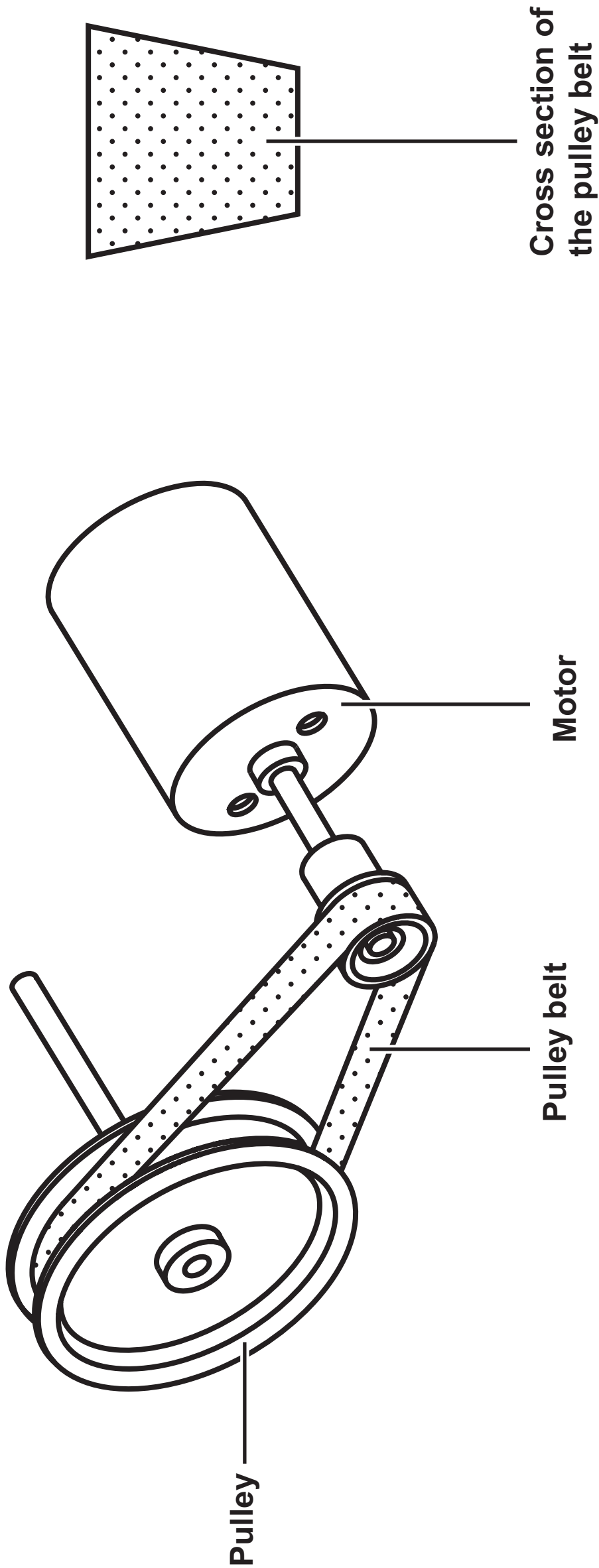


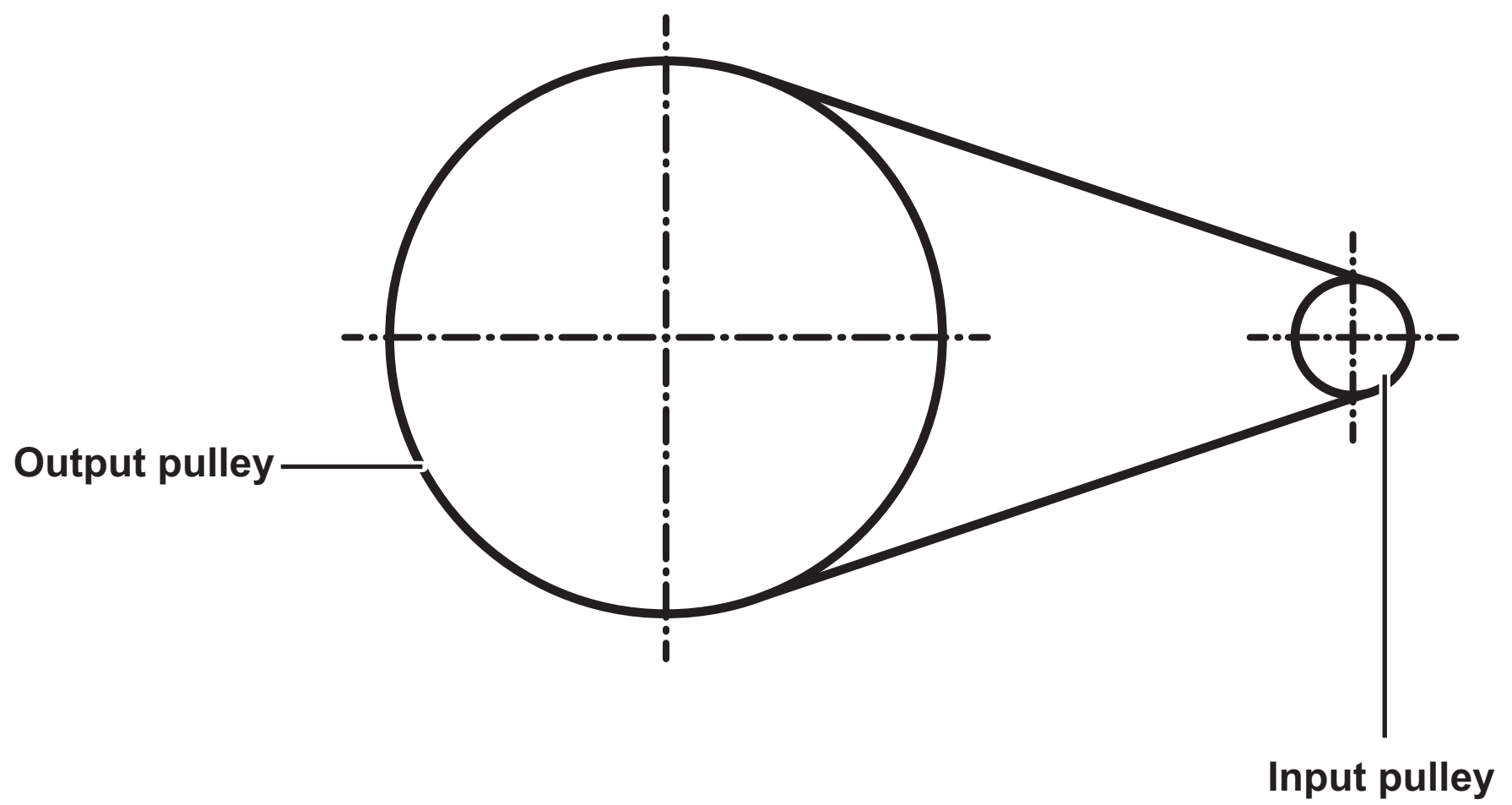
FIGURE 5





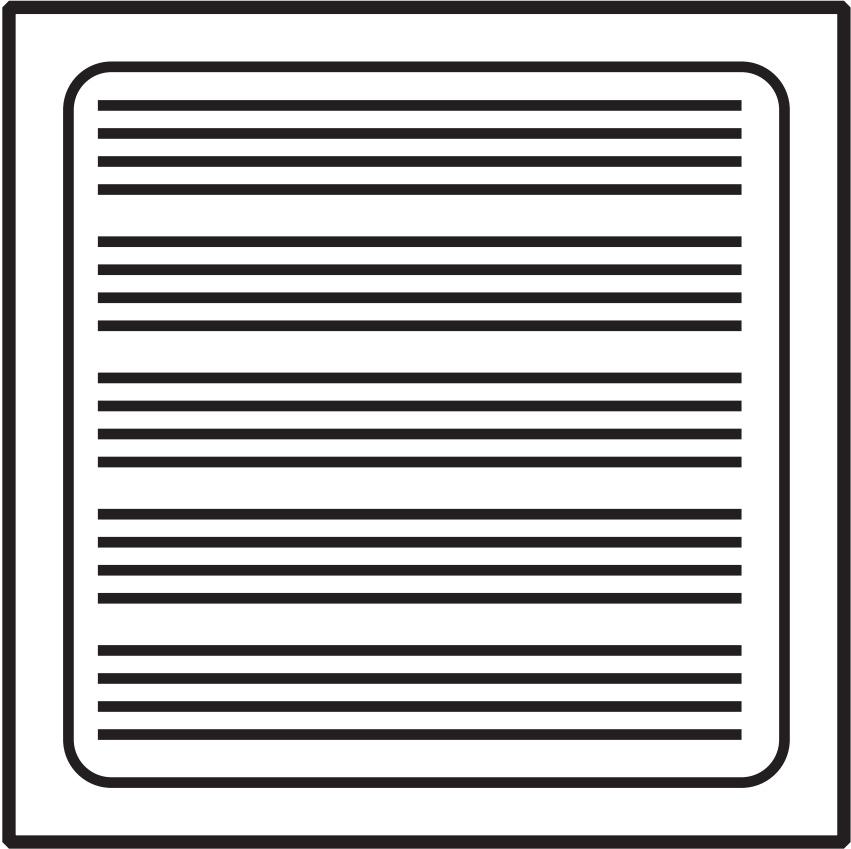
## Question 3(c)

FIGURE 6



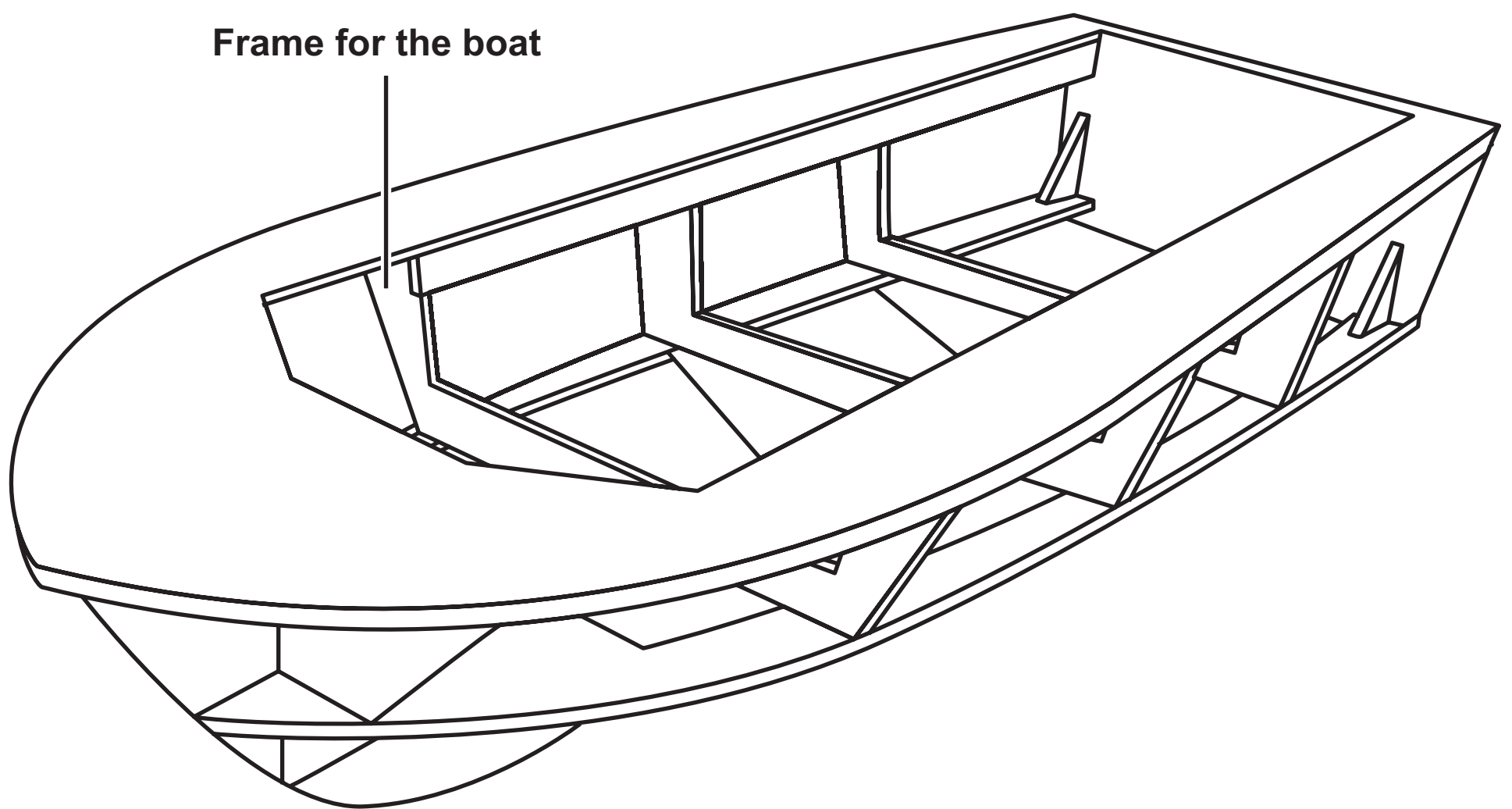
Question 3(d)

FIGURE 7



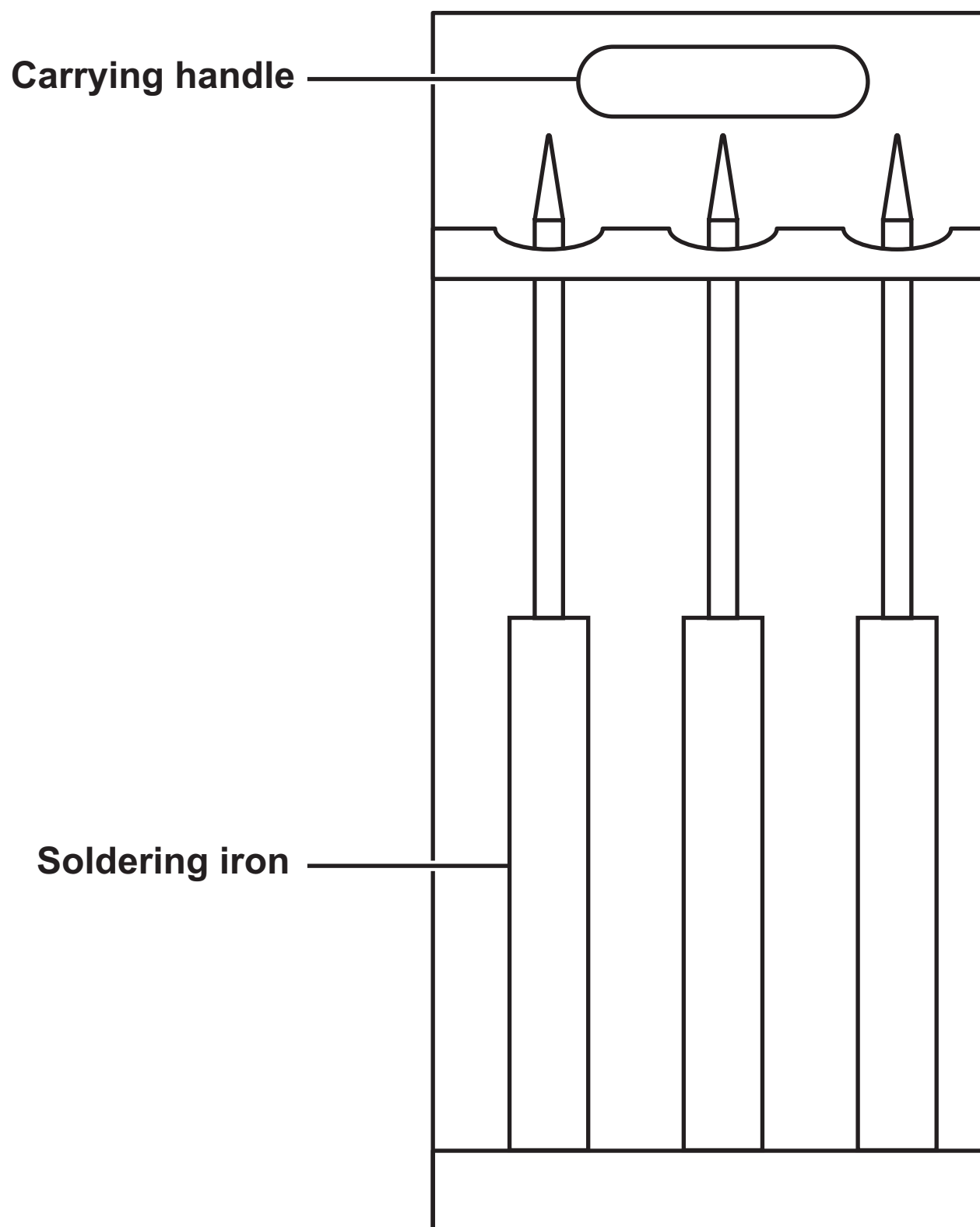
## Question 3(e)

FIGURE 8



## Question 5 – not to scale

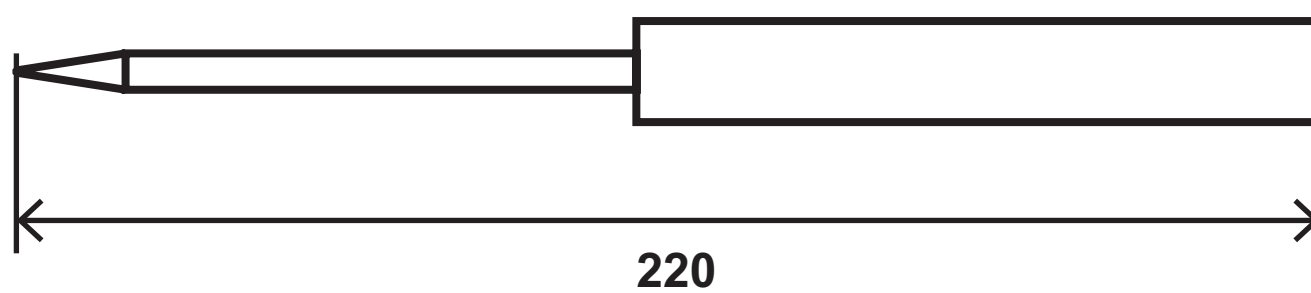
FIGURE 9

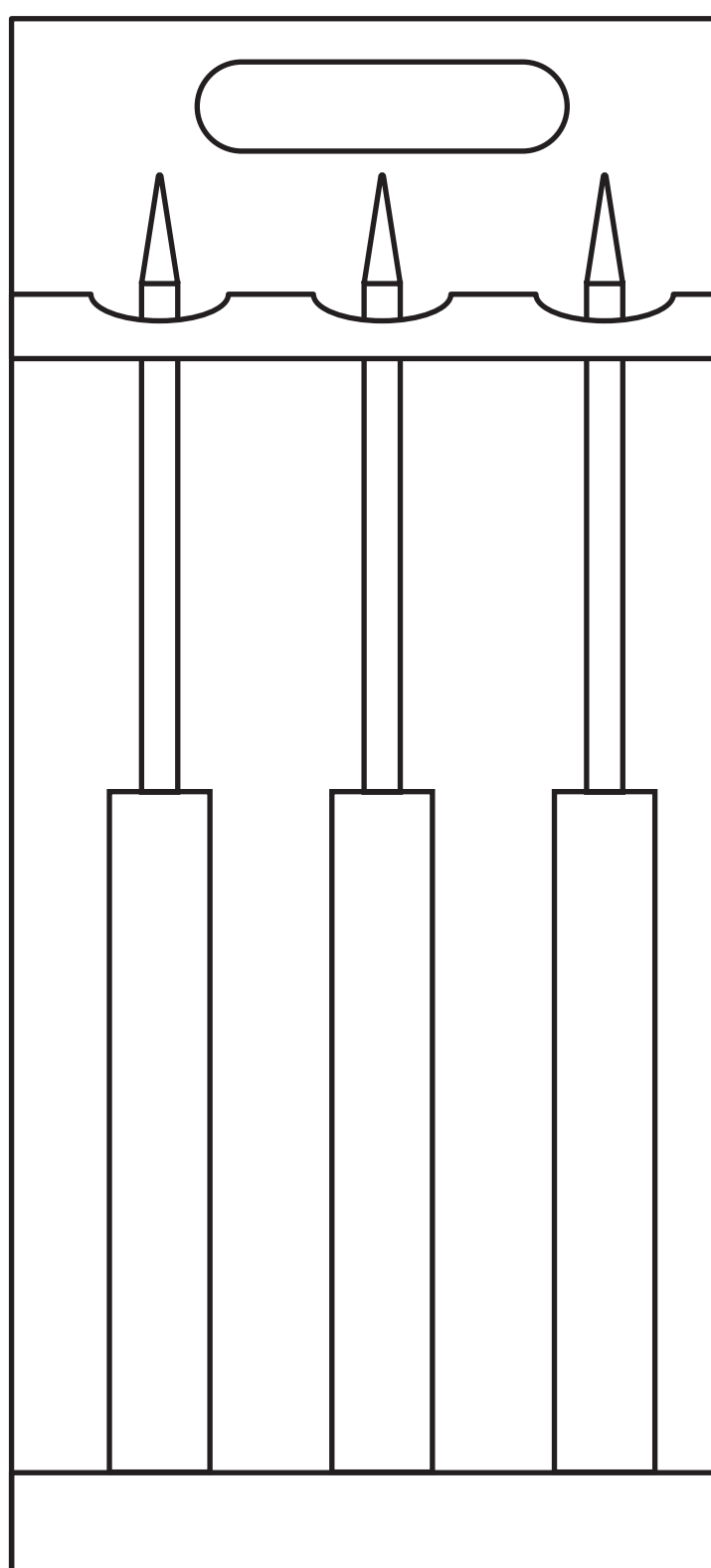


## Additional information – dimensions of soldering irons

All dimensions in mm

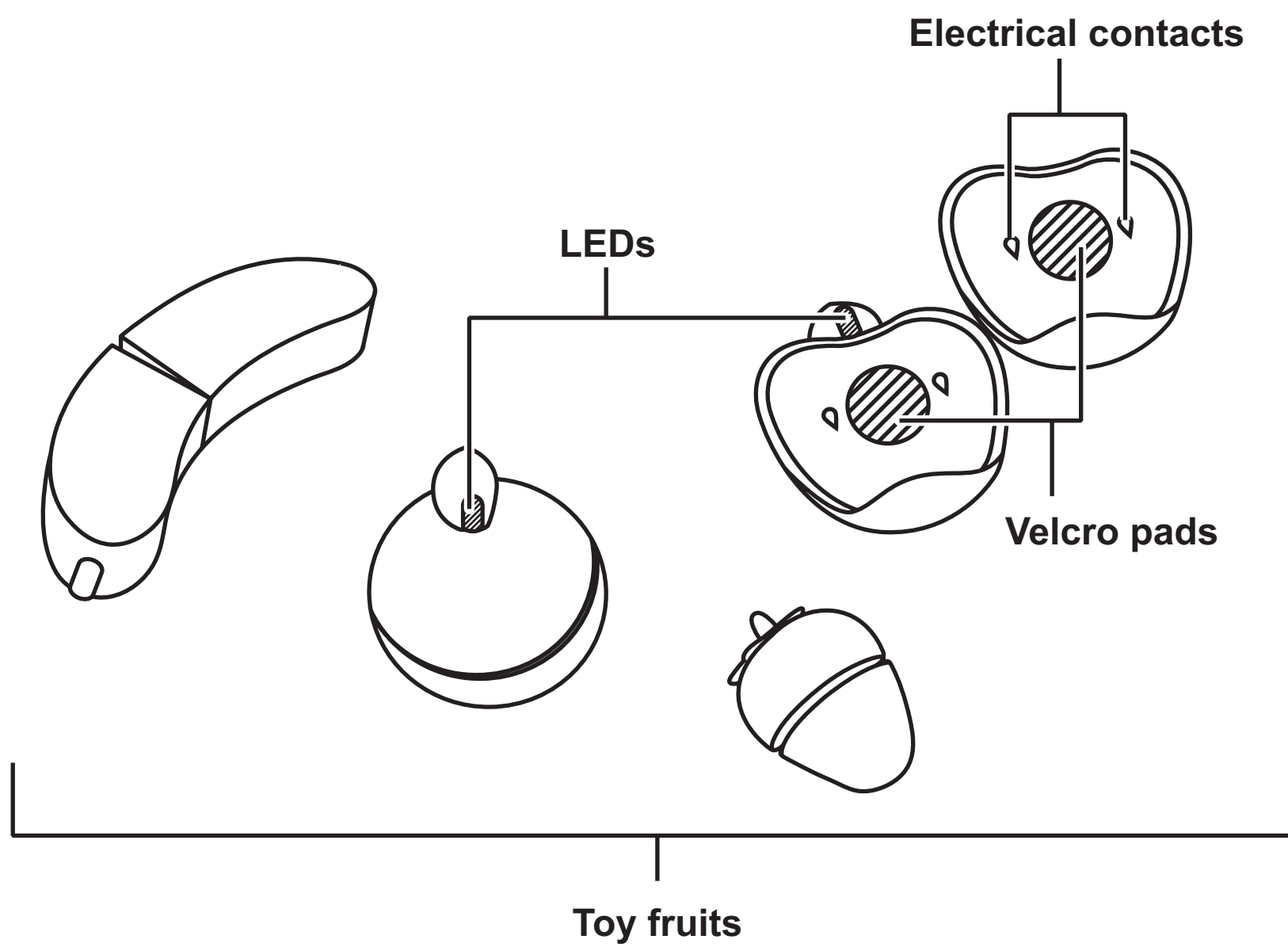
Diagram not to scale

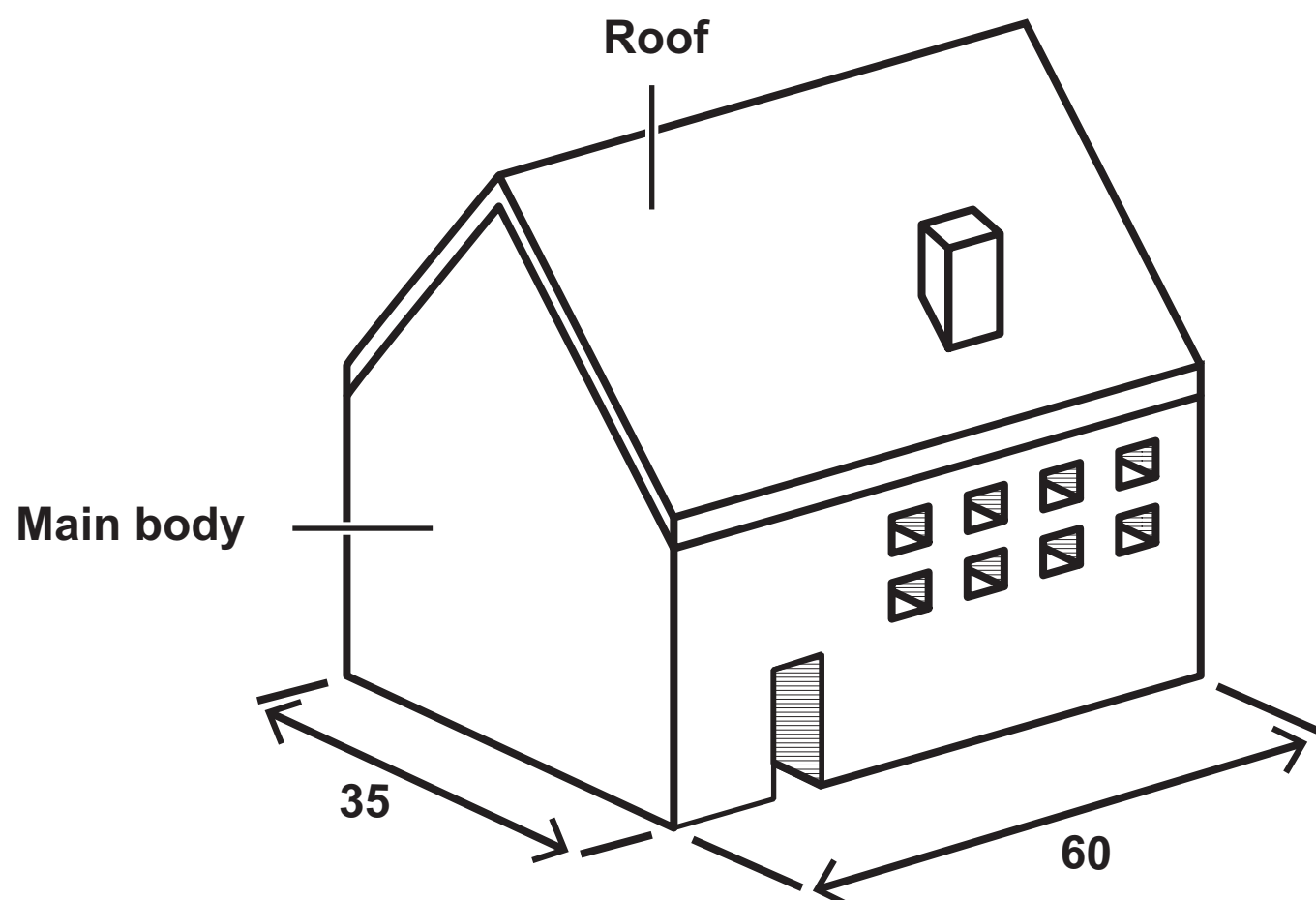


**Question 5(a) – outline diagram**

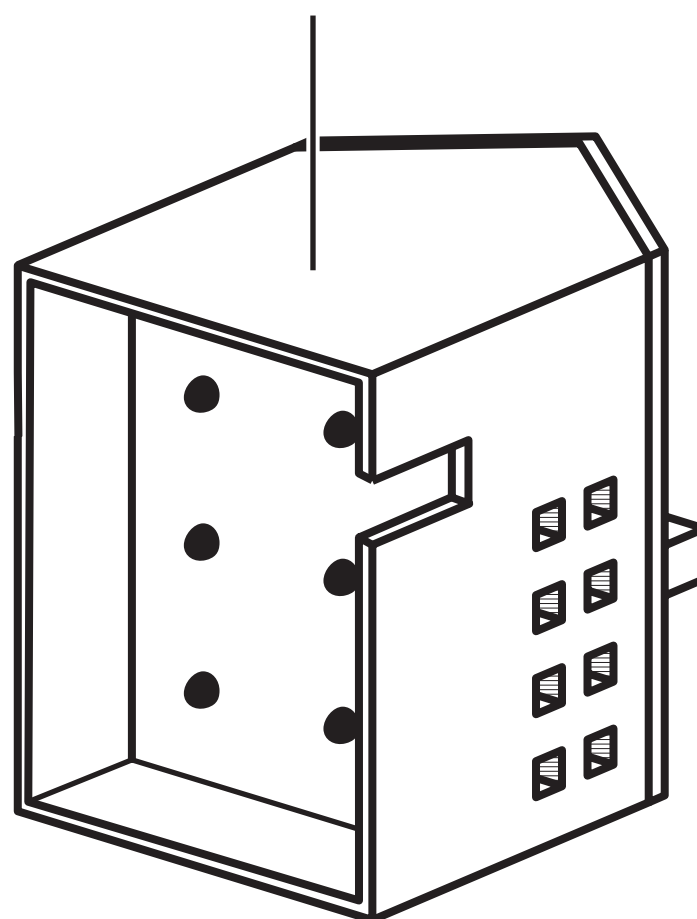
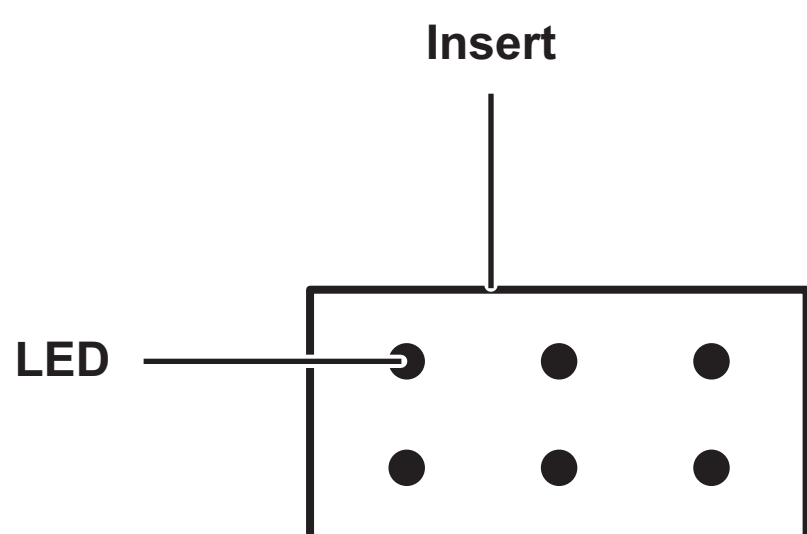
## Question 5(b)

FIGURE 10



**Question 6 – not to scale****All dimensions in mm****FIGURE 11**

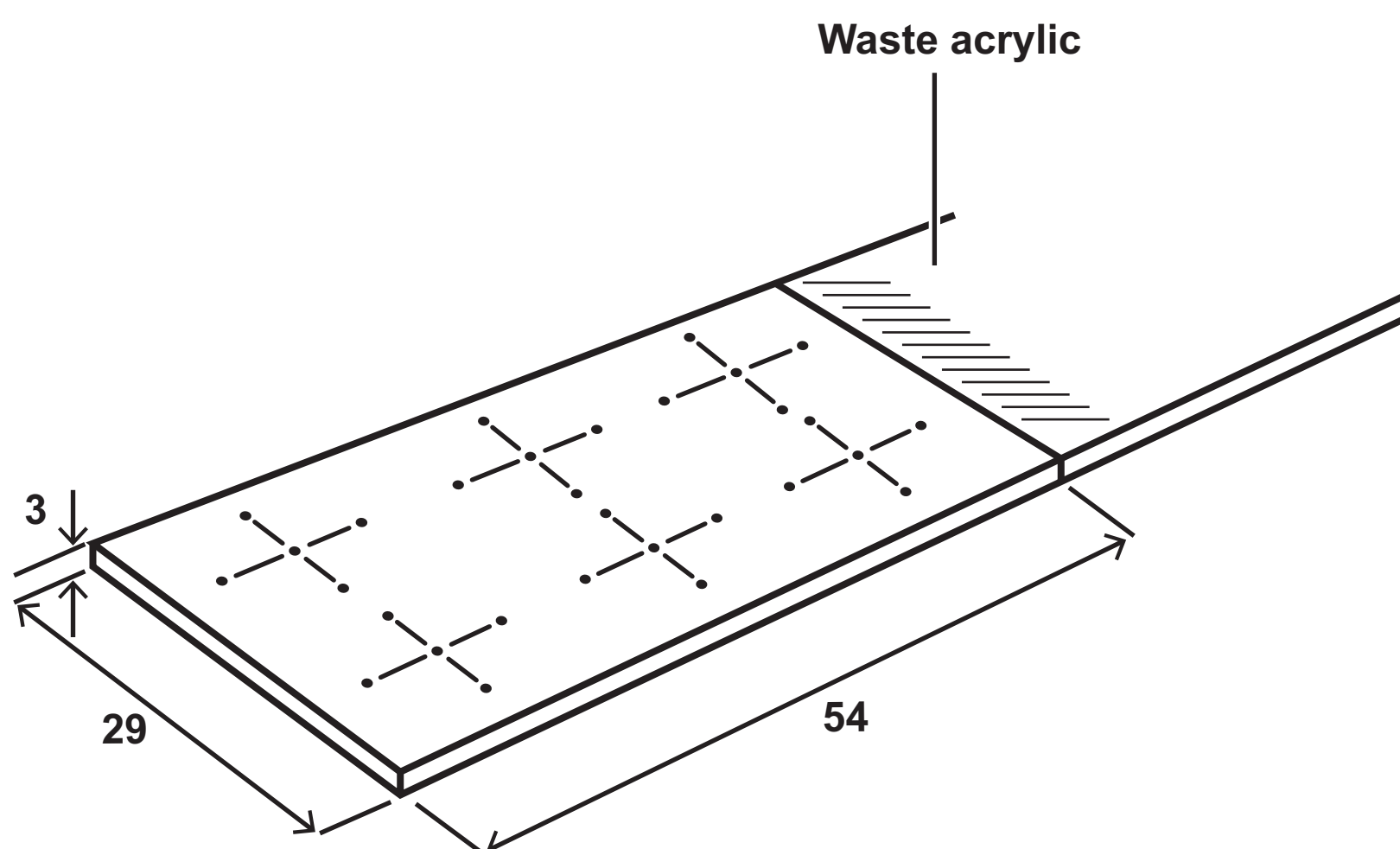
House tipped onto one end  
to see the space for the  
insert in the underside



Question 6(b) – not to scale

All dimensions in mm

FIGURE 12





**Question 6(b) – Blank**

Question 6(d) – not to scale

All dimensions in mm

FIGURE 13

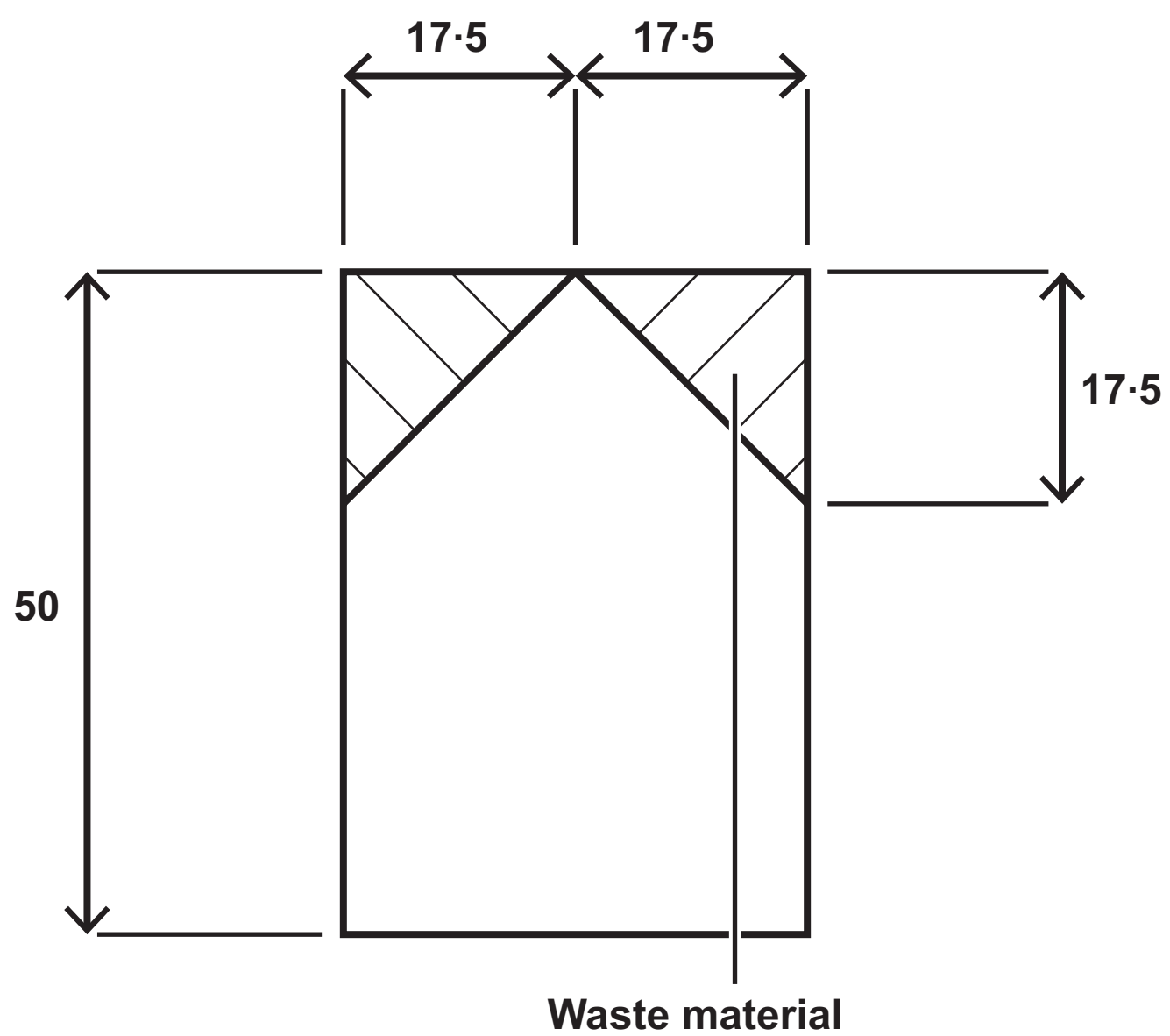
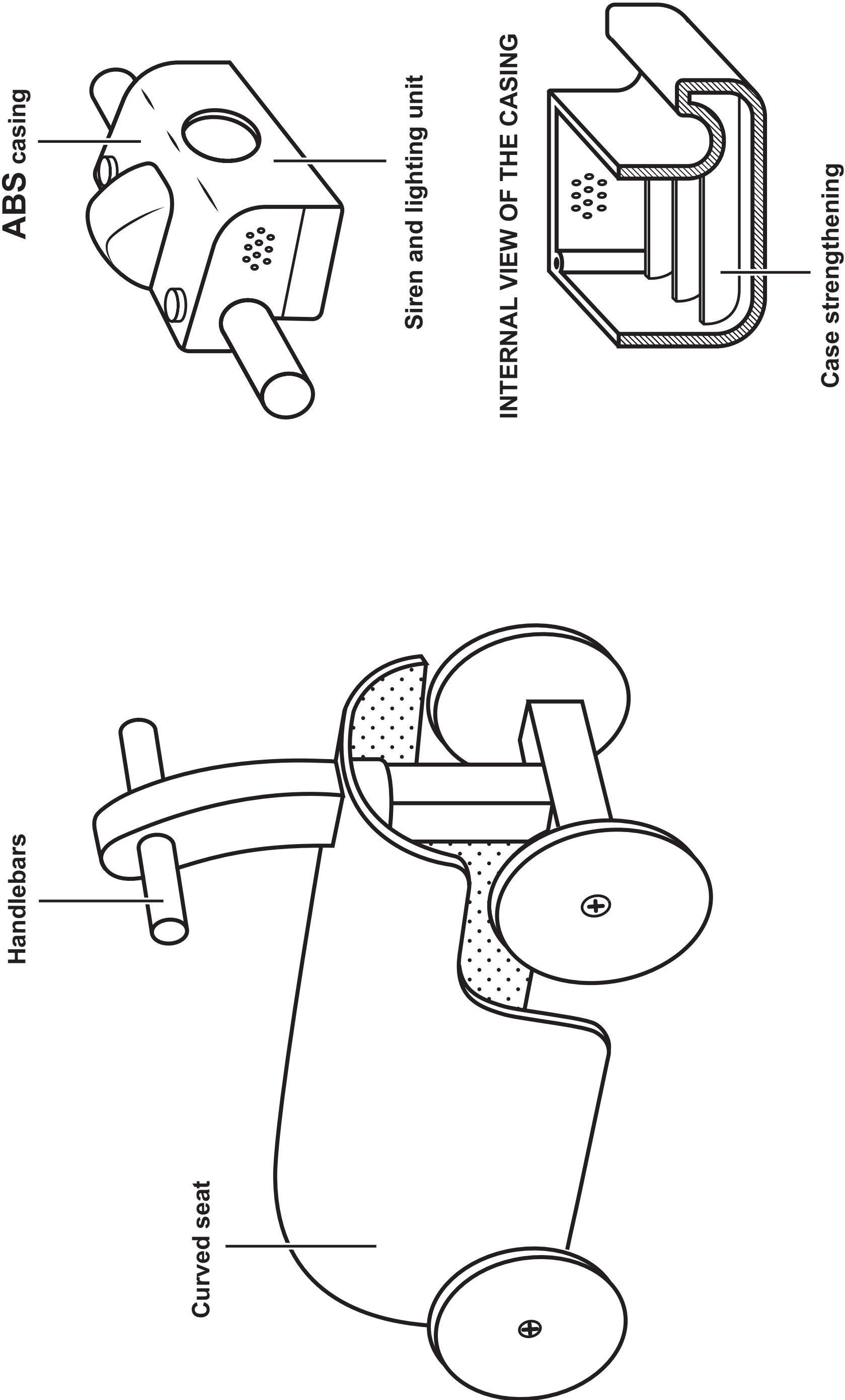


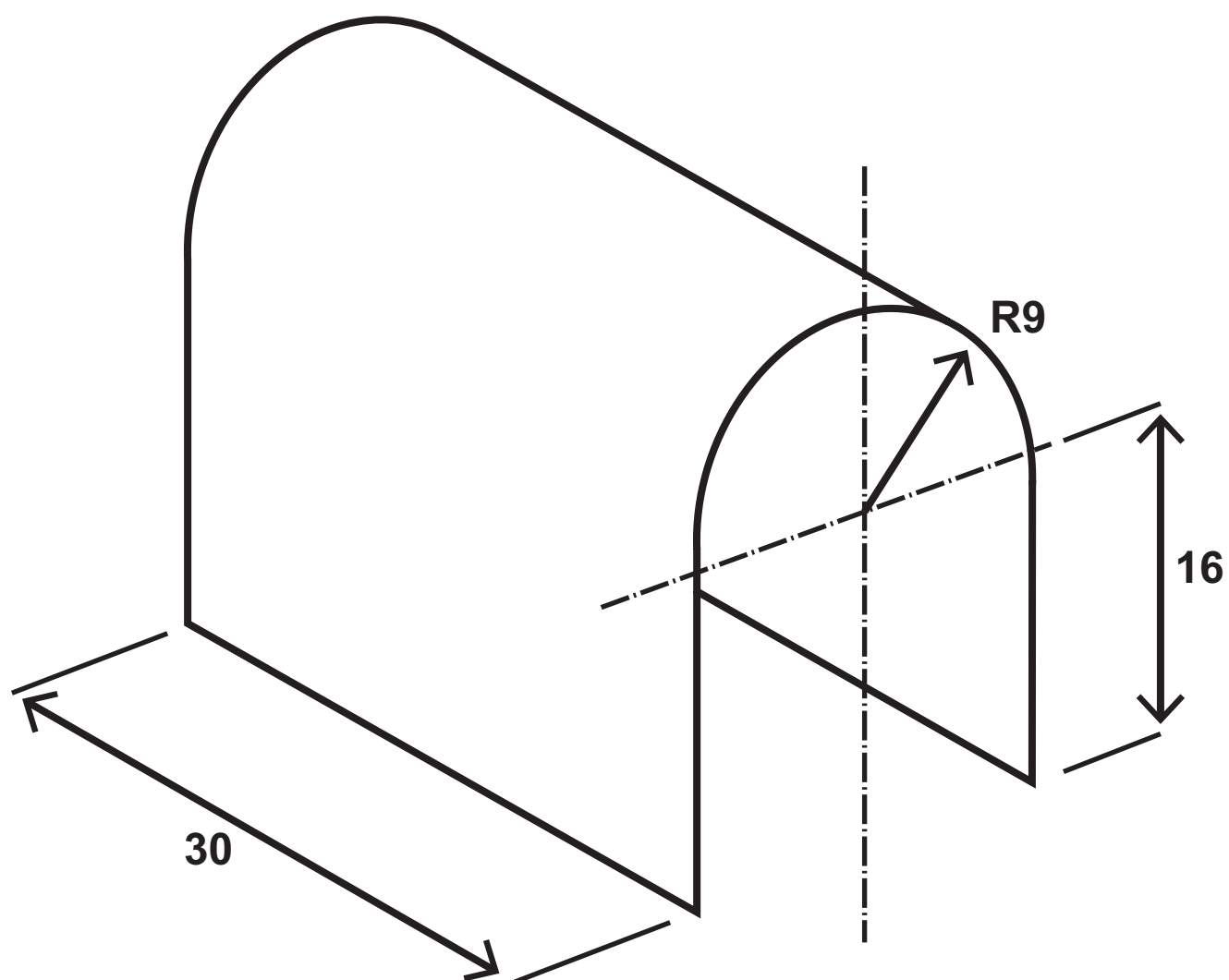
FIGURE 14



Question 7(c) – not to scale

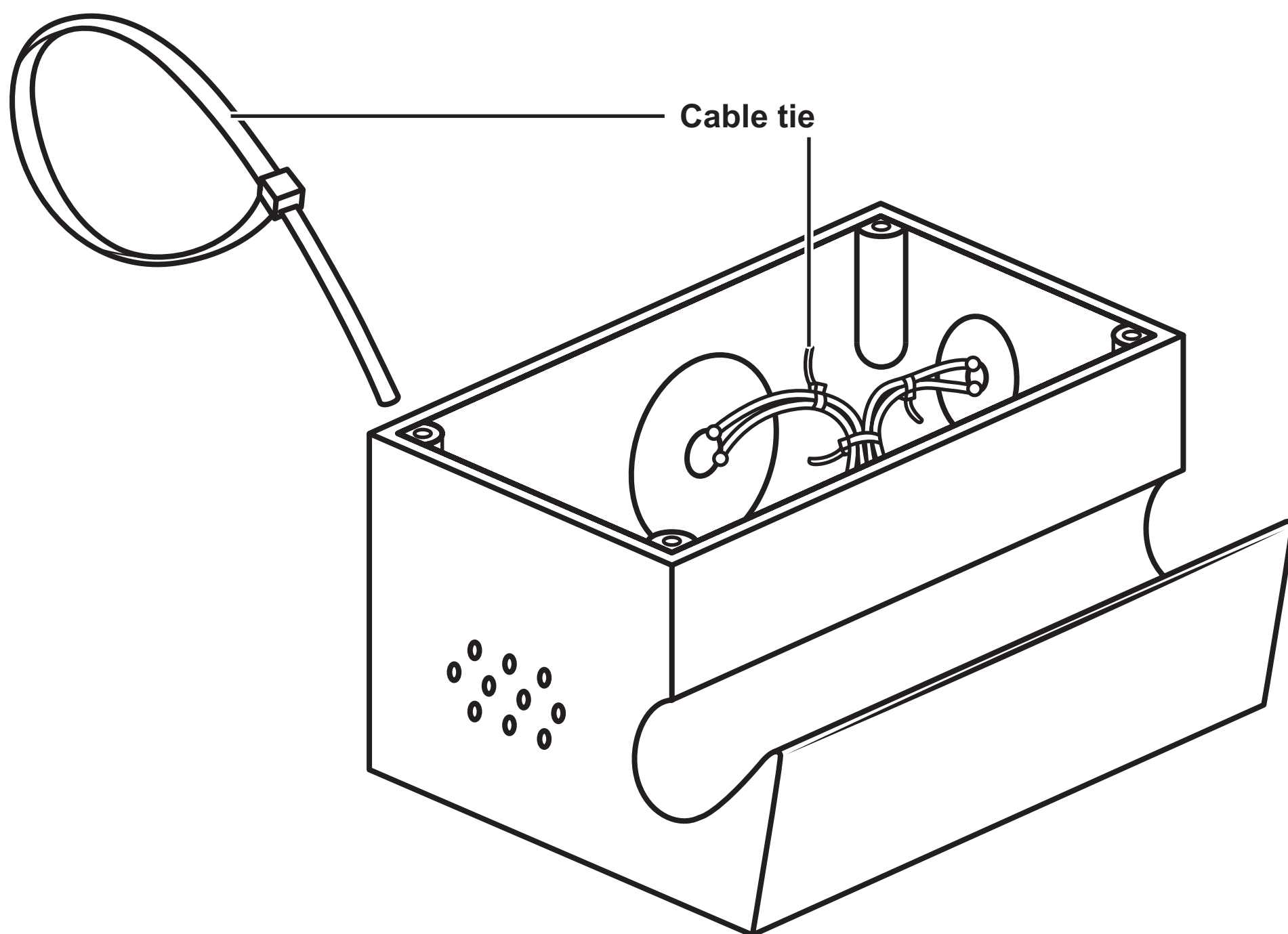
All dimensions in cm

FIGURE 15



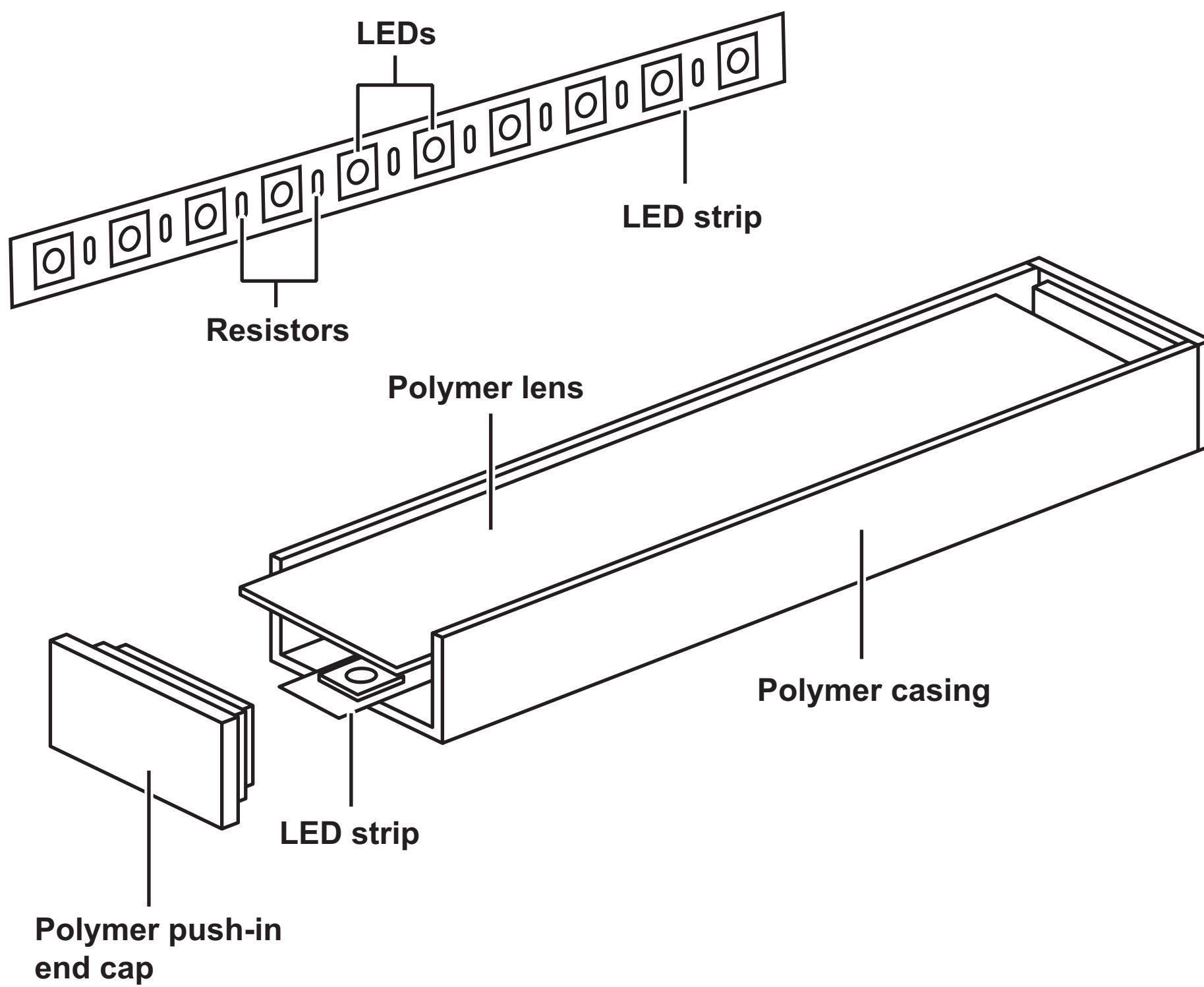
## Question 7(d)

FIGURE 16



## Question 8

FIGURE 17



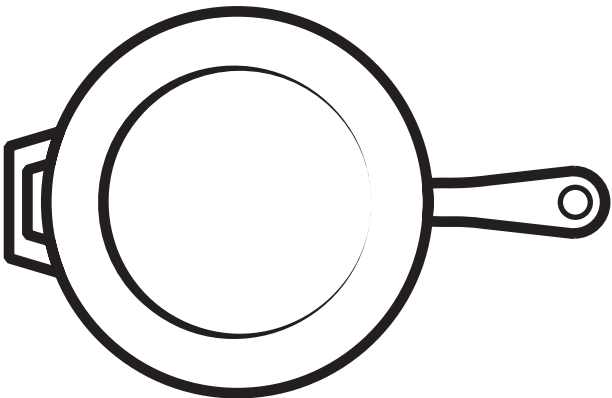
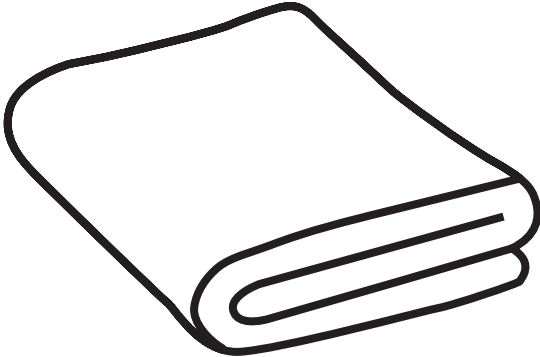
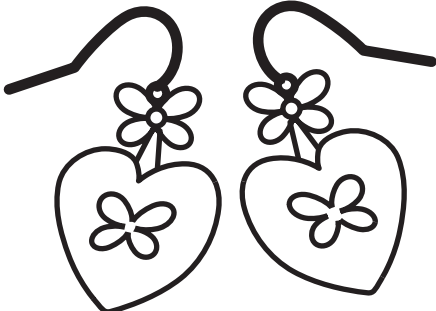

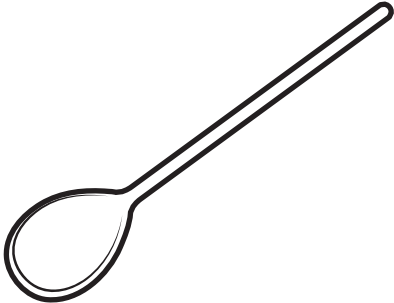
Question 8(d)

FIGURE 18

Source of polymer for the strip light	USA
Country of manufacture	United Kingdom
Potential market	Homes, schools and museums
Scale of production	Batch

Question 1(a)

FIGURE 1

Picture of product	Material and product	Property
	Cast iron frying pan	Hard
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	Polyester resin earrings	(ii)  <hr/> (1 mark)
	Copier paper	(iii)  <hr/> (1 mark)
	Beech cooking spoon	(iv)  <hr/> (1 mark)



Question 2(d)

FIGURE 3

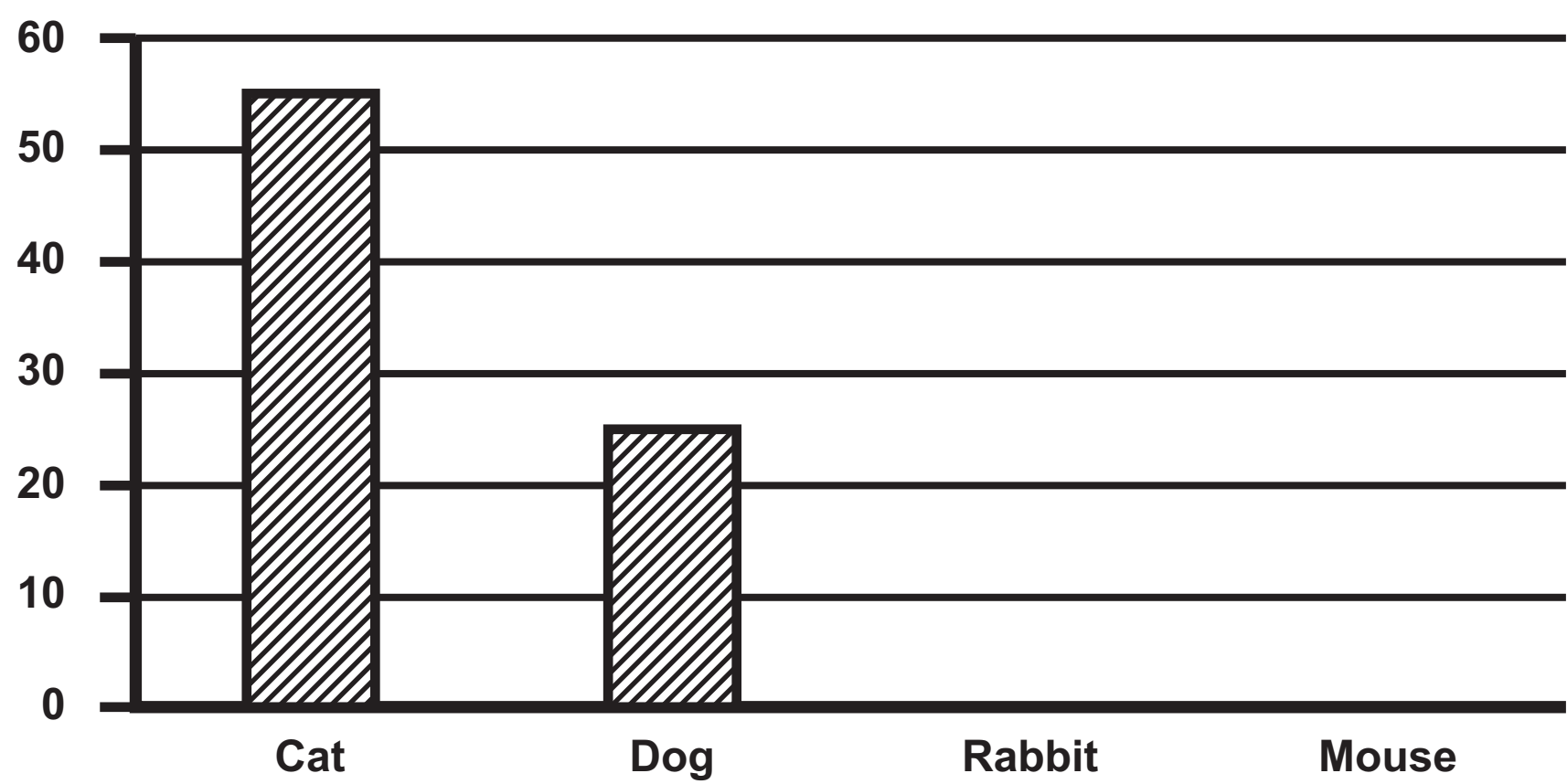
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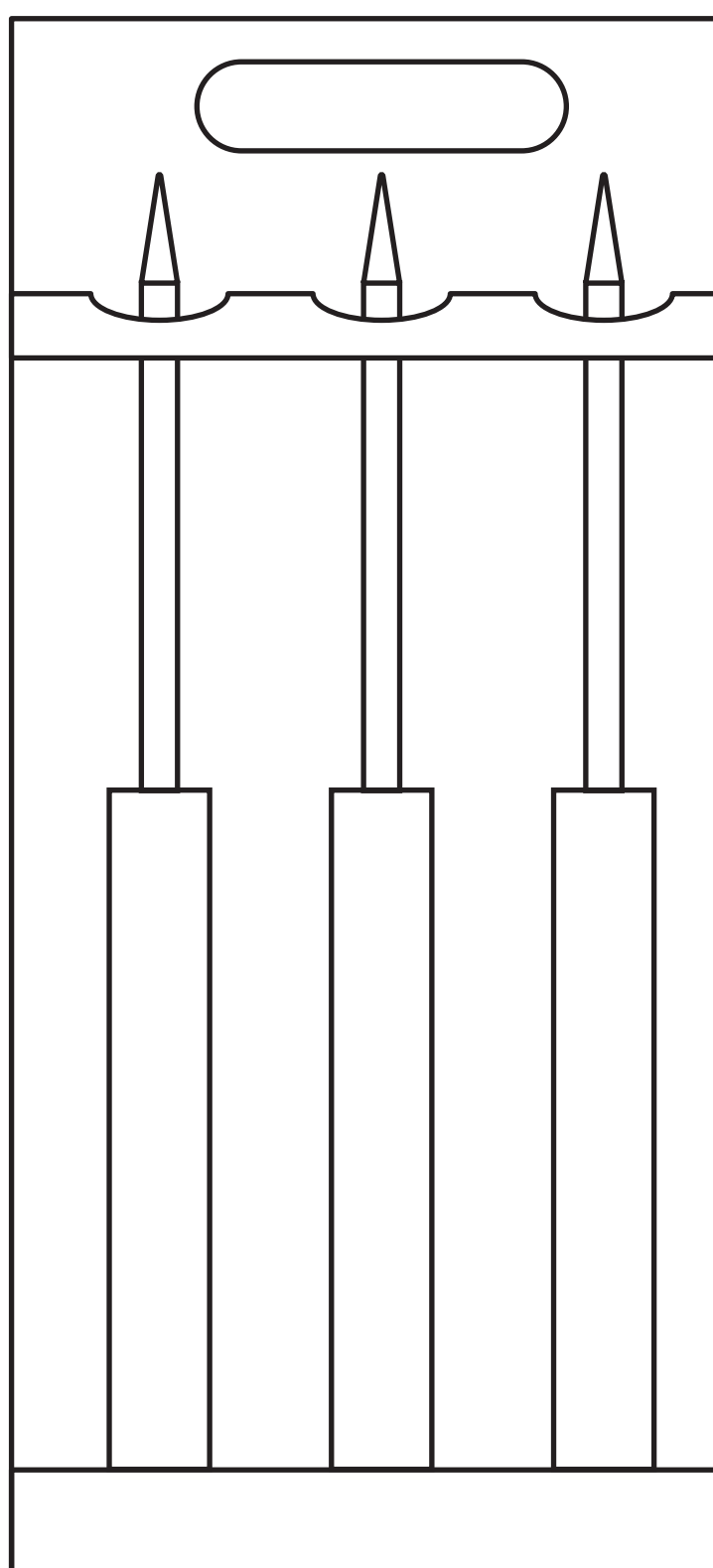
**Question 2(d)(i) – Blank**

Question 2(d)(ii)

FIGURE 4

Percentage of votes cast



**Question 5(a) – outline diagram**

**Question 6(b) – Blank**