S.1 TECHNOLOGY AND DESIGN

END OF JUNE 2026

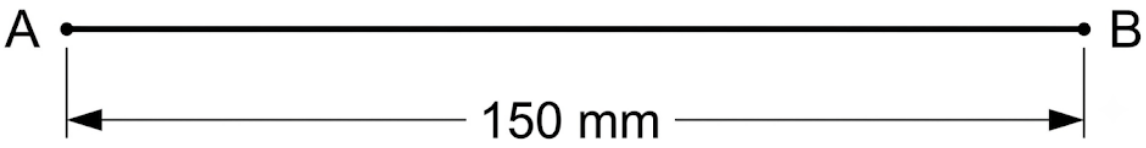
1hr: 20min

Instructions

- This question paper consists **two** items.
- Answer both items.
- A drawing paper A4 is provided use both sides.
- Draw the boarder line on both sides of the paper and make a title block on the lower right-hand side and in it print your **name**, **class, stream** and **date.**

Item 1

Mr. Moses has an 80 mm long candy stick represented by line AB, which he wishes to share equally among seven learners. To ensure that each learner receives a fair share, the candy must be divided equally. However, any error in locating the division points may result in some learners receiving larger portions than others, leading to an unfair distribution.



As a student of Technology and Design, you have been requested to assist Mr. Moses in dividing the candy using graphical methods.

Task:

a) Show how the candy can be divided equally among the seven learners.
b) Measure and state the length of the candy each learner will receive.

Item 2

A local metalworker is required to cut a trapezium-shaped cover plate for a machine bracket as shown in Figure 2. The drawing provided is only a sketch and does not represent the actual size and shape of the plate.

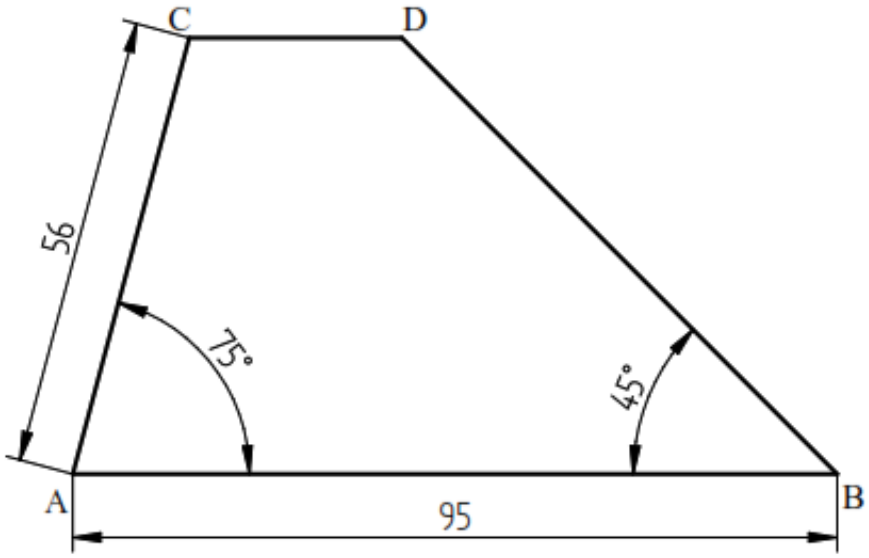


Figure.2

To avoid wasting material and to ensure that the plate fits correctly, an accurate drawing of the plate is required before cutting can begin.

Task

Make a neat and accurate drawing of the trapezium (Use a ruler, pencil and pair of compasses only)

END