

## AFRICAN INSTITUTE FOR MATHEMATICAL SCIENCES

SCHOOLS ENRICHMENT CENTRE (AIMSSEC)

## **AIMING HIGH**

## TANGRAM 2D SHAPES

To make your 7-piece Tangram Puzzle, either make your own tangram pieces from scrap paper as shown in this video:



https://youtu.be/11 U31PIfLQ or use this diagram and carefully cut out the pieces. Now use the pieces of your Tangram to make the following shapes:

- Isosceles triangle
- Rectangle
- Parallelogram
- Isosceles trapezium
- Pentagon

HELP



Cut out the 7 pieces for this tangram puzzle. Can you fit them into this rectangular box without gaps and without overlapping?

Now try to make the other shapes.

## NEXT

Four equilateral tiles are put together to make a new shape. Which shape is impossible to make?

- a) Irregular hexagon
- b) Parallelogram
- c) Isosceles trapezium (four equilateral triangles cannot make an isosceles trapezium)
- d) Regular triangle