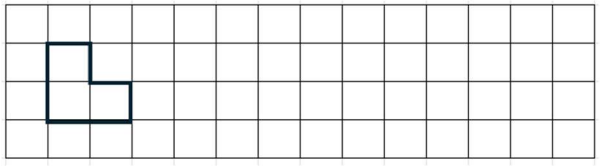
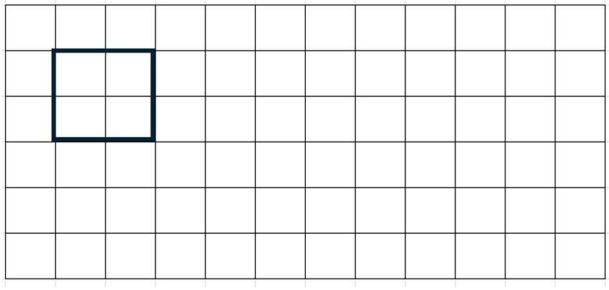
TESSELLATIONS

Task 1

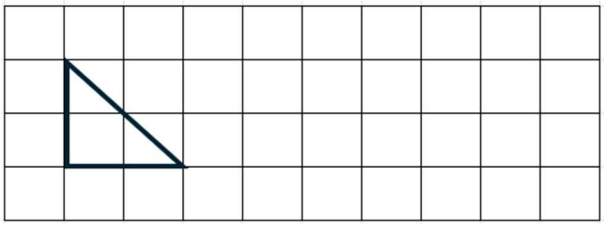
1) **Draw seven more shapes to show the shape will tessellate.**



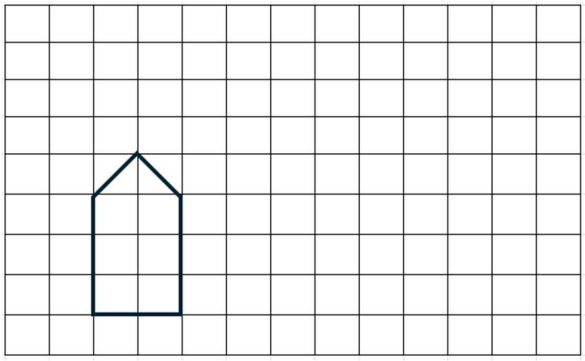
2) **Draw nine more shapes to show the shape will tessellate.**



3) **Draw seven more shapes to show the shape will tessellate.**

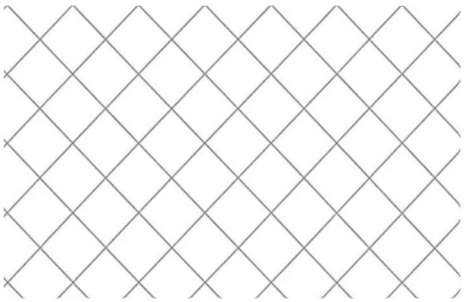


4) **Draw nine more shapes to show the shape will tessellate.**

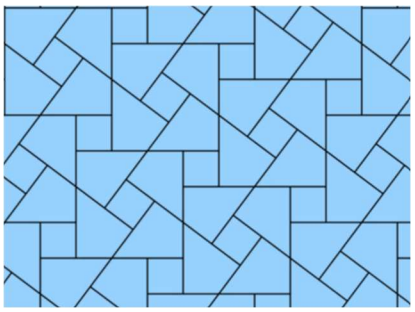


Task 2 – Identify whether the following tessellations are regular or irregular tessellations.

5)

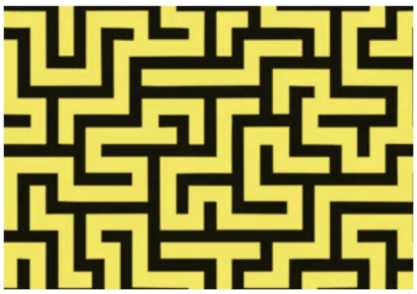


6)



7)

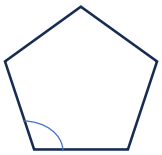
8)



Task 3

9) When will a regular polygon tessellate?

10) A regular pentagon is pictured below.



a. Work out the size of an interior angle of a regular pentagon.

b. Will a regular polygon tessellate? Why or why not?

11) A regular hexagon is pictured below.

a. Work out the size of an interior angle of a regular hexagon.

b. Will a regular hexagon tessellate? Why or why not?

12) A regular heptagon is pictured below.

a. Work out the size of an interior angle of a regular heptagon. Give your answer to 1 decimal place.

b. Will a regular heptagon tessellate? Why or why not?

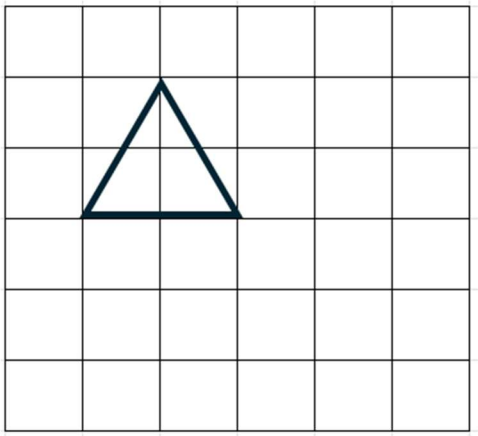
13) A regular octagon is pictured below.

a. Work out the size of an interior angle of a regular octagon.

b. Will a regular heptagon tessellate? Why or why not?

Task 4

14) Equilateral triangles will tessellate. Use the grid to show that six equilateral triangles will tessellate into a regular hexagon.



15) A rhombus will tessellate. Use the grid to show that eight rhombuses will tessellate into a larger rhombus.