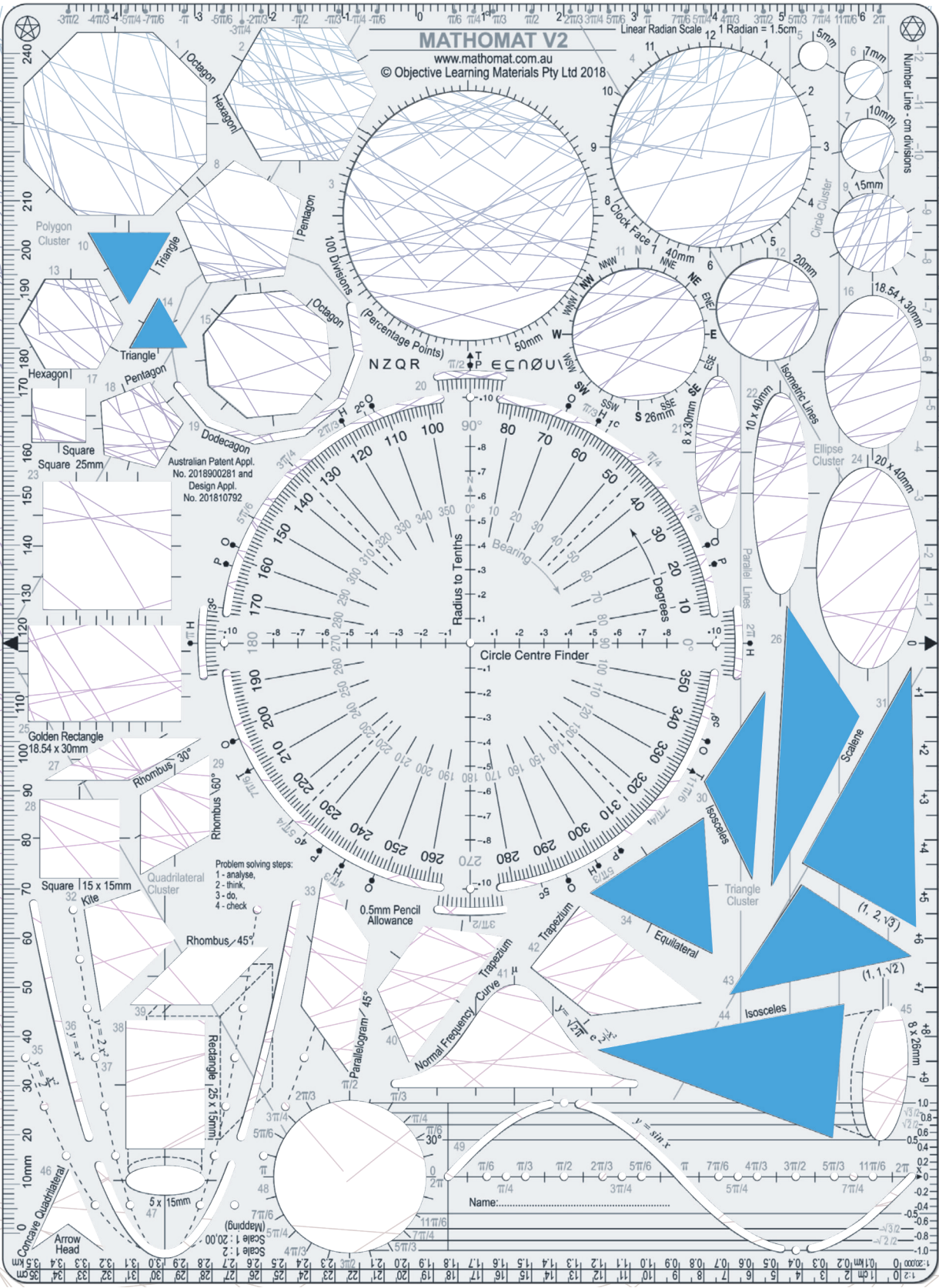


MATHOMAT V2

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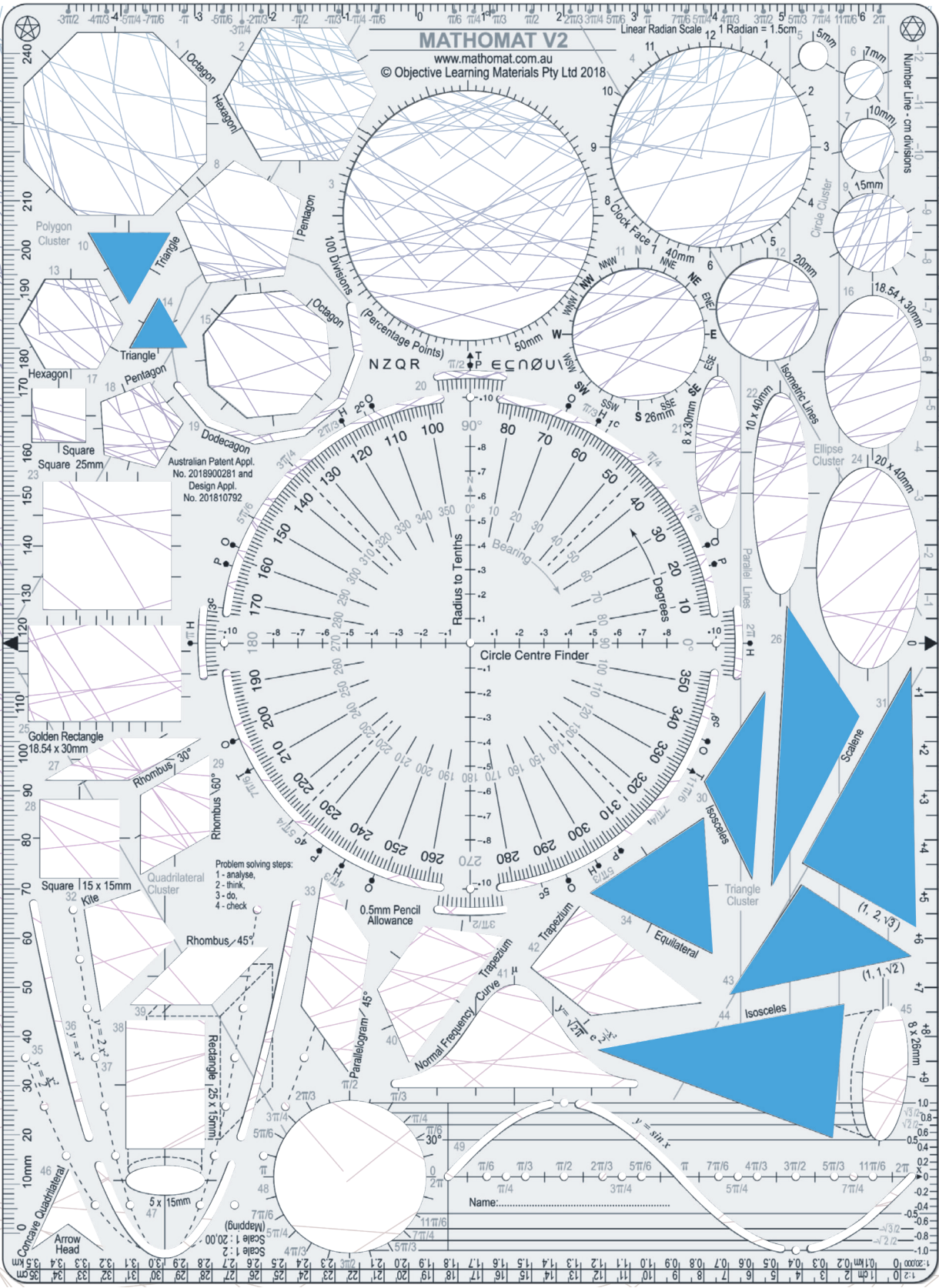
Linear Radian Scale 1 Radian = 1.5cm



Australian Patent Appl.
No. 2018900281 and
Design Appl.
No. 201810792

Problem solving steps:
1- analyse,
2- think,
3- do,
4- check

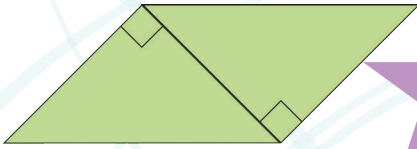
Name:



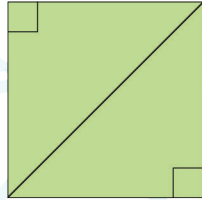
Triangles Examples

Exploring Quadrilateral Properties using Triangles

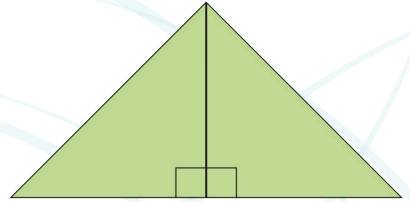
The Isosceles right-angled Triangle.



Parallelogram

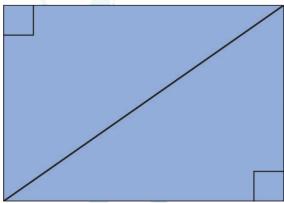


Square

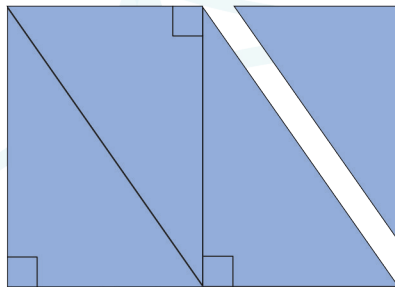


Enlarged Isosceles Triangle

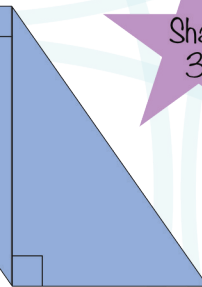
The Scalene right-angled Triangle.



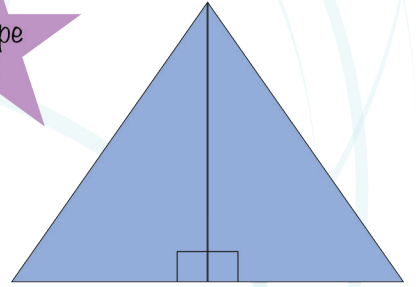
Rectangle



Right - angled Trapezium

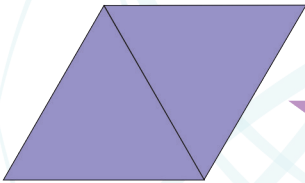


Parallelogram

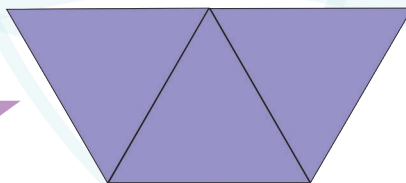


Enlarged Isosceles Triangle

The Equilateral triangle

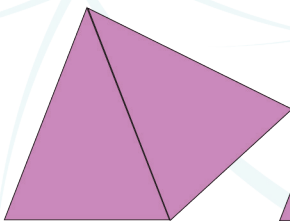


Rhombus

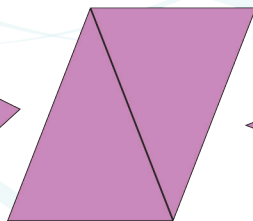


Isosceles Trapezium

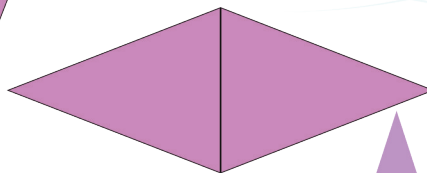
The Isosceles Triangle



kite



Parallelogram



Rhombus



A wealth of composite shapes can be drawn by using just the different triangles found on the template. This is a unique way to approach quadrilateral properties, making use of knowledge about triangles.

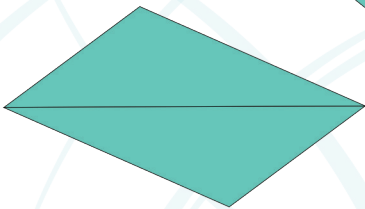


Triangles Examples

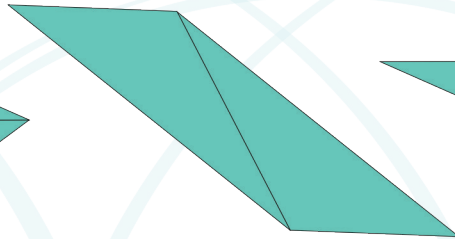
Exploring Transformation using Triangles

The Scalene Triangle

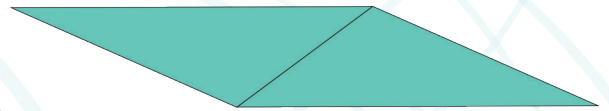
These quadrilaterals were made using rotation.



Parallelogram



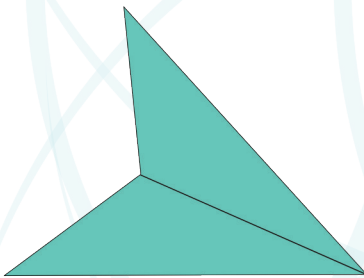
Parallelogram



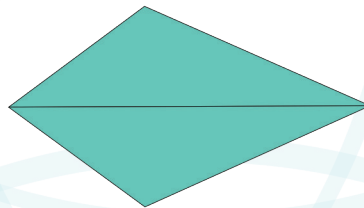
Parallelogram



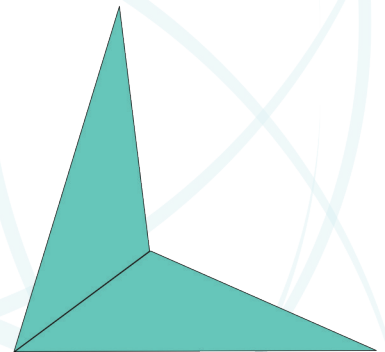
These quadrilaterals were made using reflection.



Concave Kite



Convex Kite



Concave Kite

Shape property might be better understood when presented as a hands-on activity. Have the students use their cut-out shapes or block shapes to complete the activity below. After they have built the composite shape, they must draw it with their MATHOMAT

Have students discuss how the properties of the triangle influences the properties of the quadrilateral. Only some of the combinations are shown here, refer to the Teacher's Manual for more.

