

# INTERVENTION

Side and Angle Properties of Triangles and Quadrilaterals.  
Enlarge Shapes to Make Similar Shapes.

Each Intervention Anchor Chart contains steps to allow the child to investigate independently.

Children investigating an Intervention may be provided with the Intervention Anchor Chart as a guide to follow as they investigate independently.

Children investigating an Intervention may have their progress recorded in the Progress Sheet.

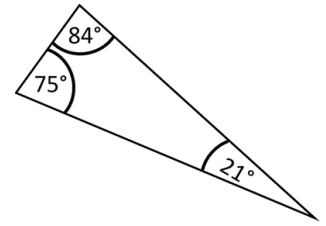
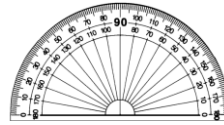
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Enlarge Shapes to Make Similar Shapes ..... [page 5](#)

Progress Sheet ..... [page 6](#)

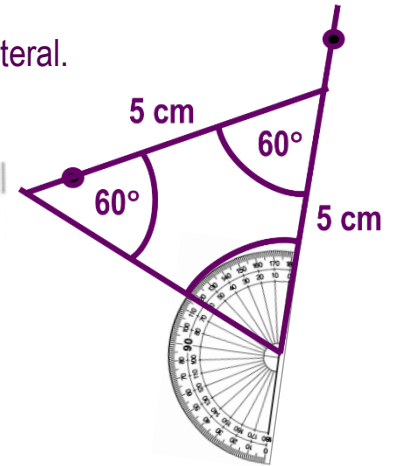
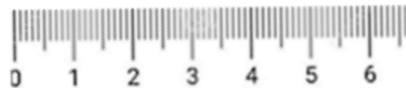
Construct a triangle, measure the angles and record the sum of the angles.

**Sum of the angles in a triangle:  $180^\circ$**



Use a ruler and protractor to construct and classify a triangle as equilateral.

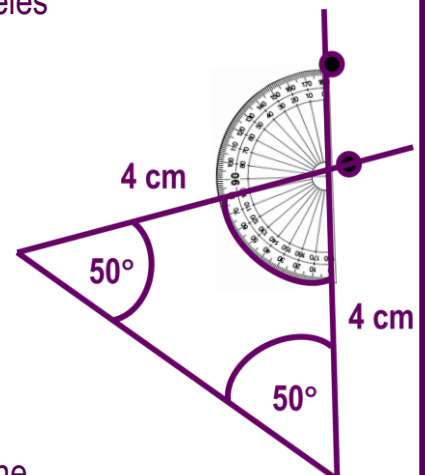
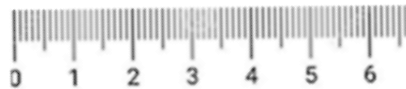
What are the side and angle properties of an equilateral triangle?



**An equilateral triangle has 3 \_\_\_\_\_ angles and 3 \_\_\_\_\_ sides.**

Use a ruler and protractor to construct and classify a triangle as isosceles

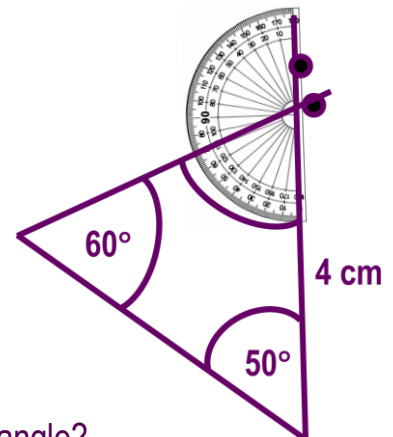
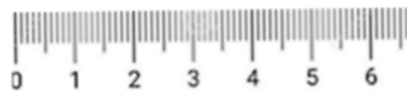
What are the side and angle properties of an isosceles triangle?



**An isosceles triangle has \_\_\_ equal angles and \_\_\_ equal sides.**

Use a ruler and protractor to construct and classify a triangle as scalene.

What are the side and angle properties of a scalene triangle?



**A scalene triangle has \_\_\_ equal angles and \_\_\_ equal sides.**

Reflection: What is a triangle?

How many degrees in a triangle?

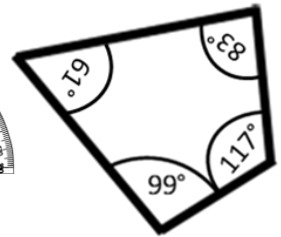
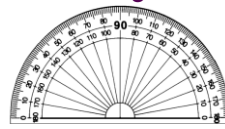
What are the side and angle properties of an equilateral triangle?

What are the side and angle properties of an isosceles triangle?

What are the side and angle properties of a scalene triangle?

Construct a triangle, measure the angles and record the sum of the angles.

**Sum of the angles in a quadrilateral:  $360^\circ$**

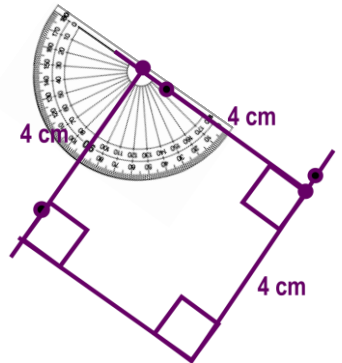


Use a ruler and protractor to construct and classify an equilateral quadrilateral – a square.

What are the side and angle properties of a square?



A square has 4 \_\_\_\_\_ angles and 4 \_\_\_\_\_ sides.

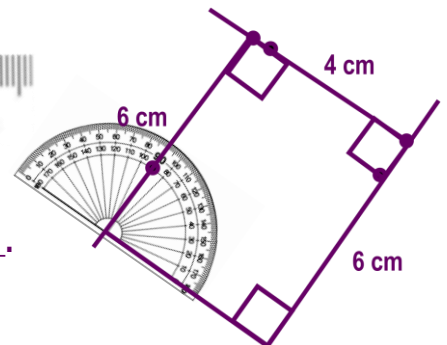


Use a ruler and protractor to construct and classify an irregular quadrilateral – a rectangle.

What are the side and angle properties of a rectangle?



A rectangle has \_\_\_\_\_ equal angles and its opposite \_\_\_\_\_ are \_\_\_\_\_.

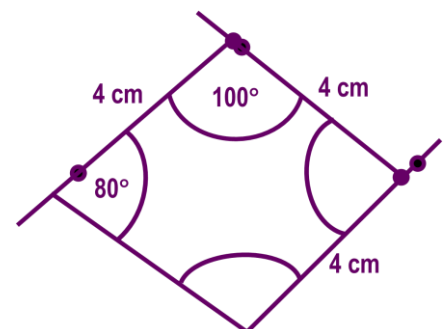


Use a ruler and protractor to construct and classify an irregular quadrilateral – a rhombus.

What are the side and angle properties of a rhombus?



A rhombus has \_\_\_\_\_ equal sides and its opposite \_\_\_\_\_ are \_\_\_\_\_.



Reflection: What is a quadrilateral?

How many degrees in a quadrilateral?

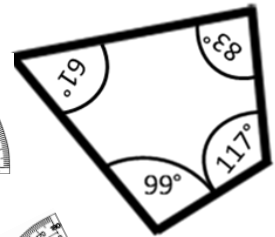
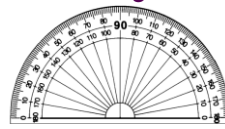
What are the side and angle properties of an equilateral quadrilateral – a square?

What are the side and angle properties of a rectangle?

What are the side and angle properties of a rhombus?

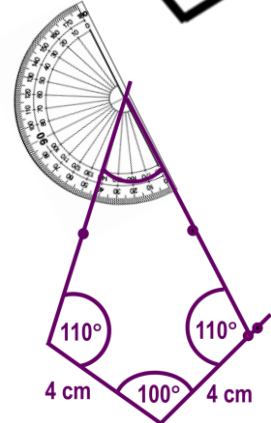
Construct a triangle, measure the angles and record the sum of the angles.

**Sum of the angles in a quadrilateral:  $360^\circ$**



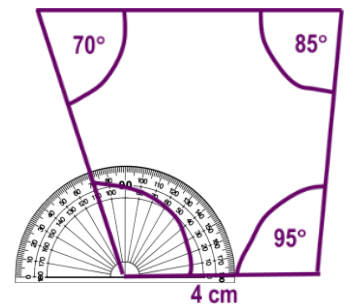
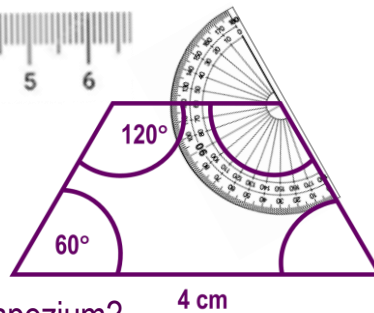
Use a ruler and protractor to construct and classify a kite.

What are the side and angle properties of a kite?



**A kite has**

Use a ruler and protractor to construct and classify a trapezium – either an isosceles trapezium or a non-isosceles trapezium.



What are the side and angle properties of a trapezium?

**A trapezium**

Reflection: What is a quadrilateral?

How many degrees in a quadrilateral?

What are the side and angle properties of kite?

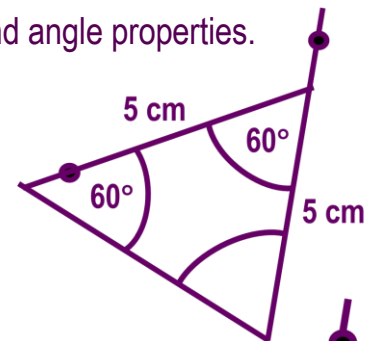
What are the side and angle properties of a trapezium?

Why is an isosceles trapezium so called?

Use a ruler and protractor to construct a shape, and label its side and angle properties.

Record the shape's side and angle properties.

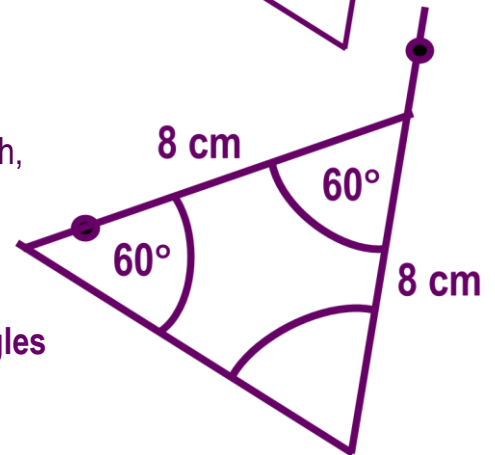
**Side and angle properties: 3 equal sides and 3 equal angles**



Enlarge the shape by making each side the same longer length, and label its side and angle properties.

Record the enlarged shape's side and angle properties.

**Side and angle properties: 3 equal sides and 3 equal angles**



Did the shape's side and angle properties change or stay the same when we enlarged it?

**The shape's side and angle properties stayed the same when we enlarged it.**

What changed when we enlarged the shape?

**The shape's side lengths, perimeter, and area changed when we enlarged the shape.**

What stayed the same when we enlarged the shape?

**The shape's angles, and side and angle properties stayed the same when we enlarged the shape.**

Shapes with the same side and angle properties but different areas are similar shapes.

Reflection: How can we construct shapes?

How can we enlarge shapes?

How can we describe a shape's side and angle properties?

Do a shape's side and angle properties change or stay the same when we enlarge it?

What are similar shapes?

# Progress Sheet

Child's Details (Name and Intervention Concept):
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Each day, record the child's progress. This record, along with the child's recordings and explanations, can be used as: **ASSESSMENT OF LEARNING (SUMMATIVE)** – at any point in time the child's demonstrated level of understanding may be recorded for tracking and reporting purposes.

**ASSESSMENT FOR LEARNING (FORMATIVE)** – the teacher may use the child's demonstrated levels of understanding over time to plan, implement and evaluate further teaching and learning. Recording daily will allow the teacher to identify irregular learning progress, where the child demonstrates understanding in one lesson but not in subsequent lessons. This record can accompany an IEP, and a referral for further support for the child.

**ASSESSMENT AS LEARNING (FORMATIVE)** – the child may be shown this record to allow them to identify their learning progress. The teacher will use their teacher professional judgment to decide whether this is appropriate.

Date									
Number size Investigated									
Independent or with support?									

Date									
Number size Investigated									
Independent or with support?									

Date									
Number size Investigated									
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