

Diving into Mastery



Quadrilaterals

Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



Diving



Deeper



Deepest

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

National Curriculum Objective

- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.



Name and identify the properties of this quadrilateral:

Name:

kite

Pairs of equal sides:

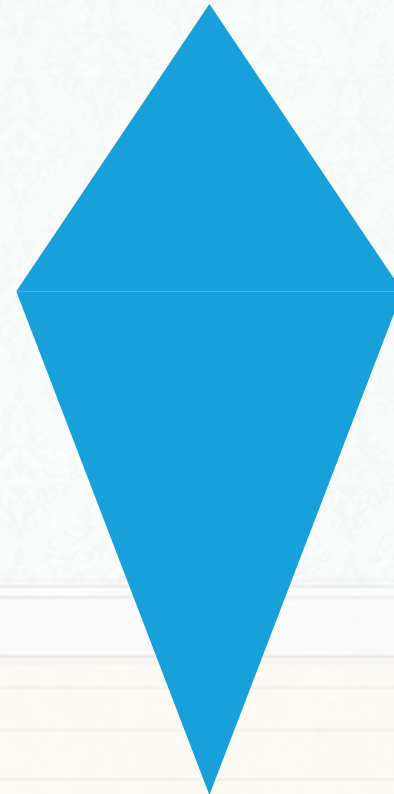
2

Pairs of parallel sides:

0

Number of right angles:

0





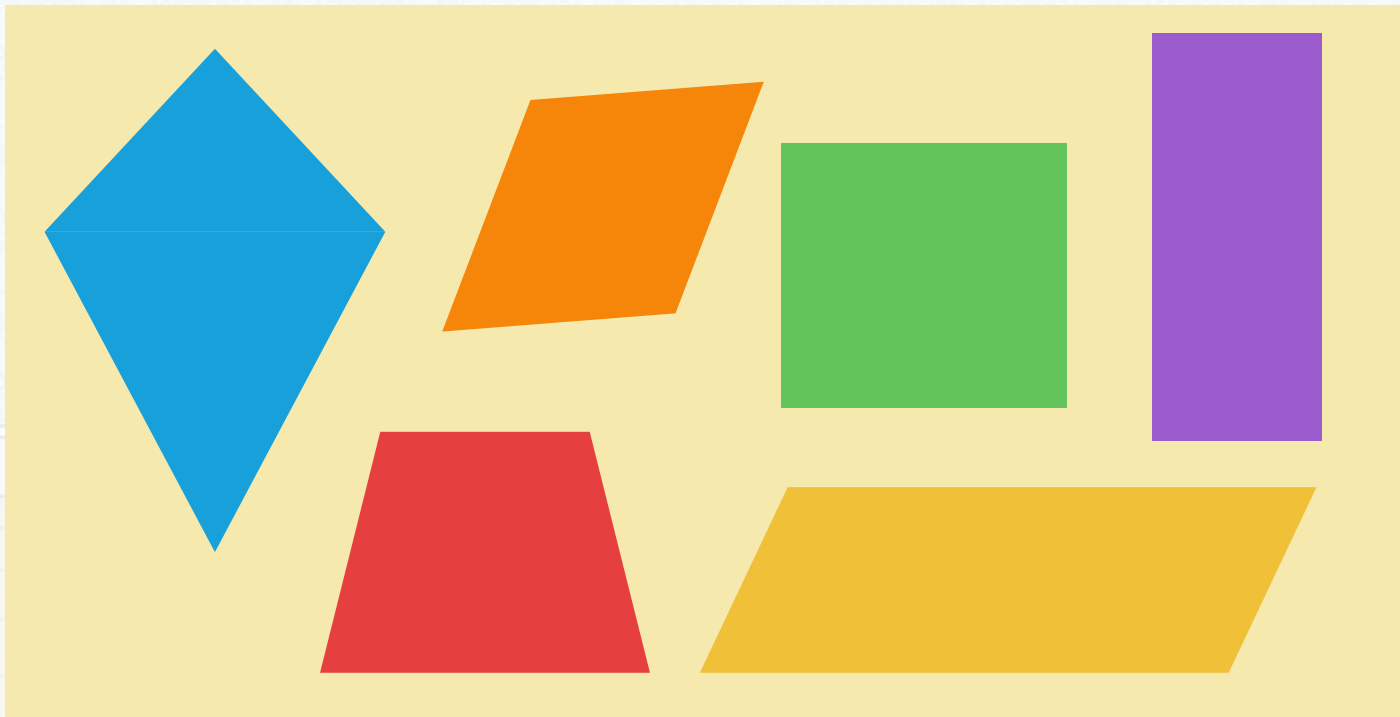
Which quadrilateral:

- has 4 right angles;
- has 2 pairs of sides of equal length;
- is not a square?



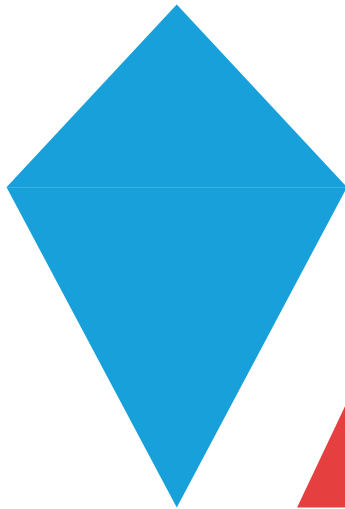


What do these shapes have in common?
What is different about them?





How many quadrilaterals can you think of which have two pairs of equal sides?





Maria says:

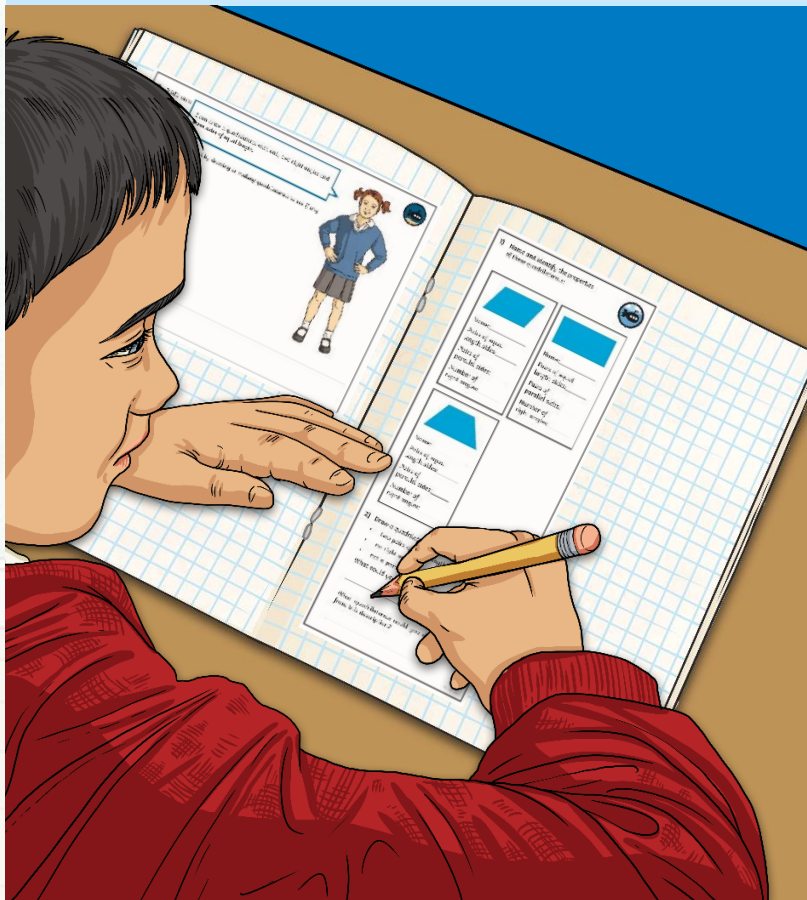
I can draw a quadrilateral with four equal length sides that is **not** a square.

Is she correct?



Quadrilaterals

Dive in by completing your own activity!



1) Name and identify the properties of these quadrilaterals:



Name: _____
 Pairs of equal length sides: _____
 Pairs of parallel sides: _____
 Number of right angles: _____



Name: _____
 Pairs of equal length sides: _____
 Pairs of parallel sides: _____
 Number of right angles: _____



Name: _____
 Pairs of equal length sides: _____
 Pairs of parallel sides: _____
 Number of right angles: _____

2) Draw a quadrilateral with these properties:

- two pairs of equal length sides
- no right angles
- not a parallelogram

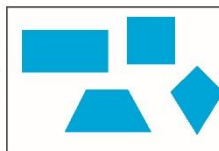
What could your quadrilateral be?



What quadrilaterals could you definitely not draw from this description?

1) What do any of these shapes have in common?

What is different about them?



2) Use isometric (dotty) paper to investigate how many quadrilaterals you can draw which have:

- only one set of parallel lines;
- no right angles;
- all sides of equal length.



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