

Answers Wednesday Maths

1. Send photos to you teacher to check if they are drawn correctly.
2. Yes you can only make an equilateral triangle.
3. Send photos to you teacher to check if they are drawn correctly.
4. D, A and B all have a right angle. A and C have two equal sides.
5. B and C

Challenge:

1. Because an equilateral triangle must have all angles the same and they are all 60° .
2. He is incorrect. When you draw a right angled triangle the other two angles are acute.

| Key Vocabulary |
|------------------|
| angle |
| right angle |
| acute |
| obtuse |
| horizontal |
| vertical |
| diagonal |
| parallel |
| perpendicular |
| two-dimensional |
| polygon |
| line of symmetry |
| reflection |
| mirror line |
| isosceles |
| equilateral |
| scalene |
| quadrilateral |
| rhombus |
| parallelogram |
| trapezium |

04.06.20

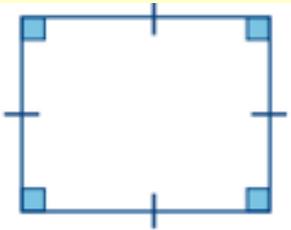
I can identify different angles
in geometric shapes.

Recap on what quadrilaterals are:

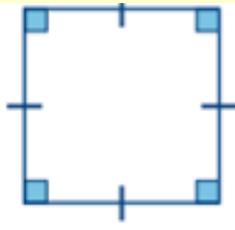
<https://www.youtube.com/watch?v=yiREqzDsMP8&t=305s>

Different types of quadrilaterals:

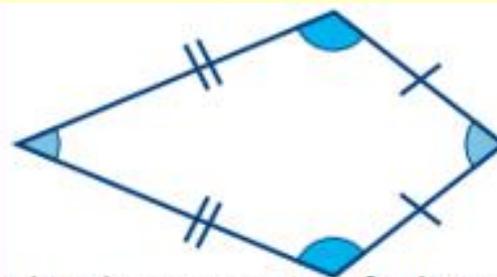
A quadrilateral is any polygon with four sides.



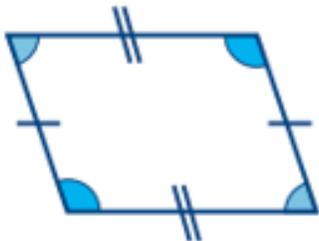
A rectangle has two pairs of parallel, equal sides and four right angles. A rectangle is also a parallelogram.



A square has four sides of equal length and four right angles (90°). A square is also a rectangle, a rhombus and a parallelogram.



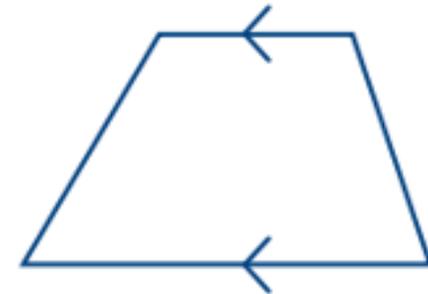
A kite has two pairs of adjacent equal sides and one pair of opposite equal angles.



A parallelogram has two pairs of parallel, equal sides and opposite equal angles.

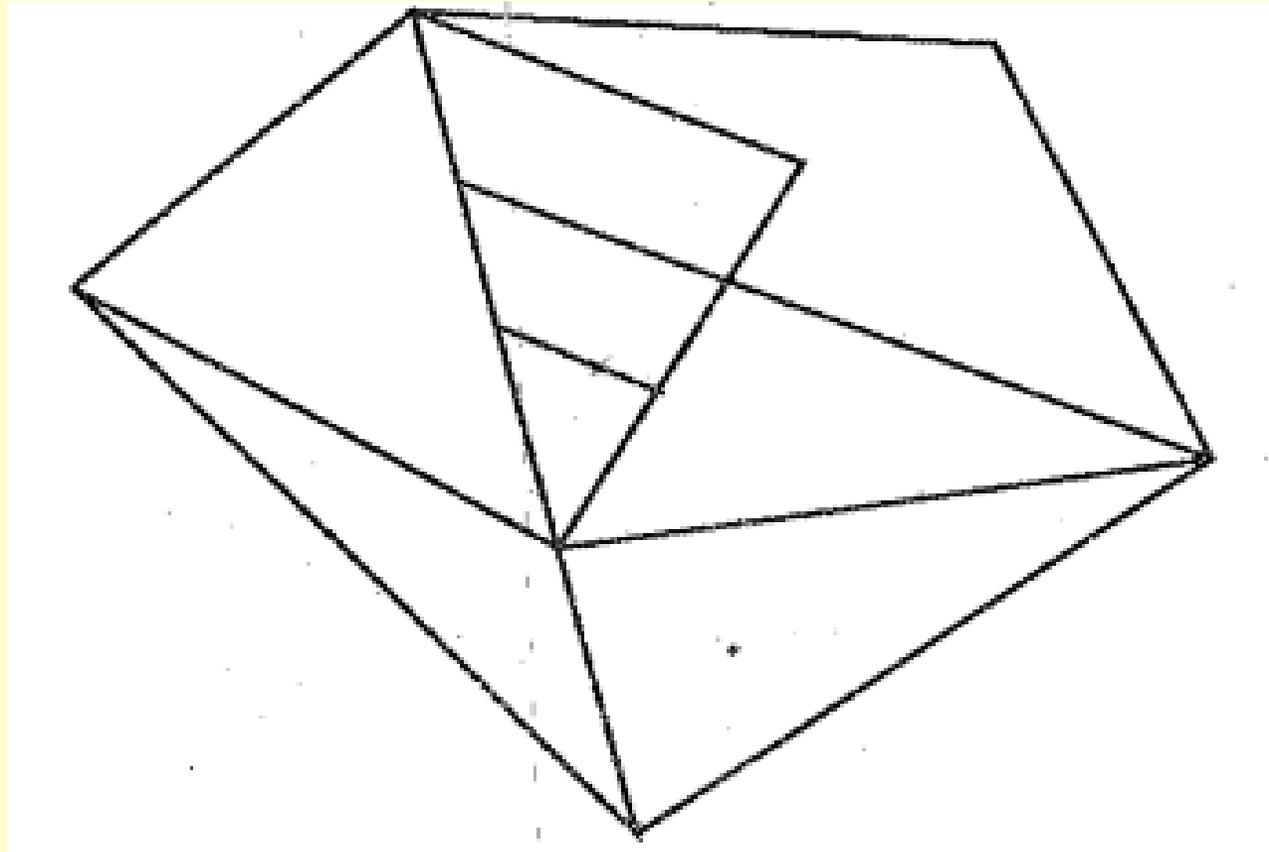


A rhombus has four sides of equal length and opposite equal angles. A rhombus is also a parallelogram.



A trapezium only has one pair of opposite parallel sides.

Starter – How many quadrilaterals can you see in this picture?



Task 1 – Quadrilateral detective

What quadrilaterals can you see in your house?

What type of angles do they have?

What is the most unusual quadrilateral you can find?

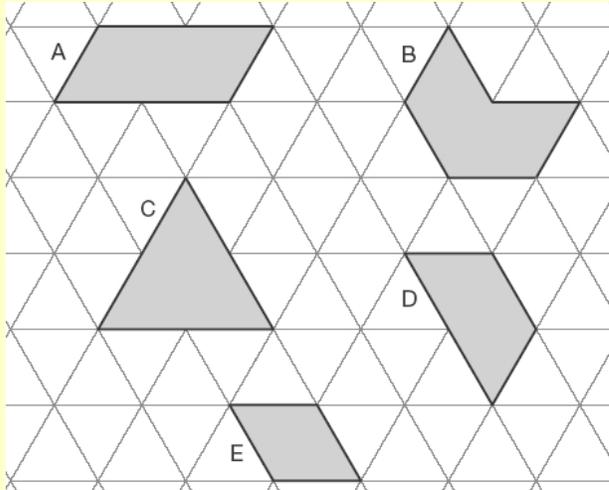
Can any of the quadrilaterals be split into triangles?



Activities:

1. Draw a quadrilateral shape that has 3 acute angles.

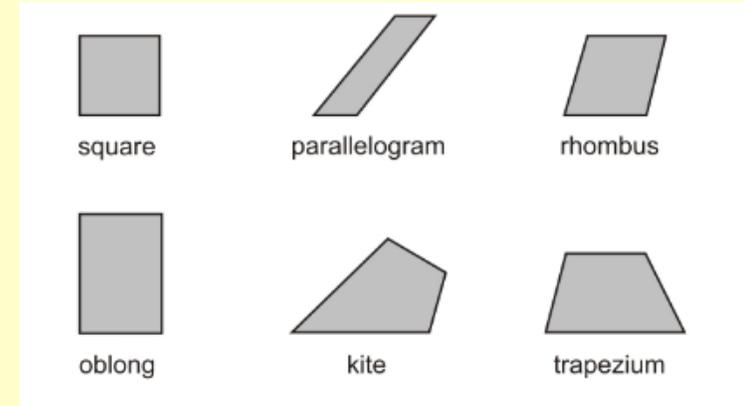
2. Look at these shapes:



Write the letter of the shape that is a rhombus.

Which shape only has one set of parallel lines?

3. Here are six quadrilaterals with their mathematical names.



a. Lara chooses one of the quadrilaterals.

She says,

**'It has two acute angles.
All four sides are the same length'.**

Which quadrilateral did Lara choose?

b. Stefan chooses one of the quadrilaterals.

He says,

**'It has more than one obtuse angle.
It has no parallel sides'.**

Which quadrilateral did Stefan choose?

4. Draw and label the properties of a rhombus, a parallelogram and trapezium.

5. Use objects in your house to create different quadrilaterals.

Can you create one that has two obtuse angles?

Challenge:

1. Sarah draws a quadrilateral.

It has these properties:

- it has 2 long sides the same length;
- it has 2 short sides the same length;
- it does NOT have any right angles;
- it does NOT have reflective symmetry.

Write the **mathematical** name for Sarah's quadrilateral.

2. A square always has four sides. Is it true that a four-sided shape is **always** a square?

Explain how you know.