THIRD SPACE LEARNING

HELLO!

Today we are going to revise geometry – 2D shapes

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Arithmetic Warm Up

1. How many sides does a quadrilateral have?

2. Name the type of triangle below:

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Revision on properties of shapes

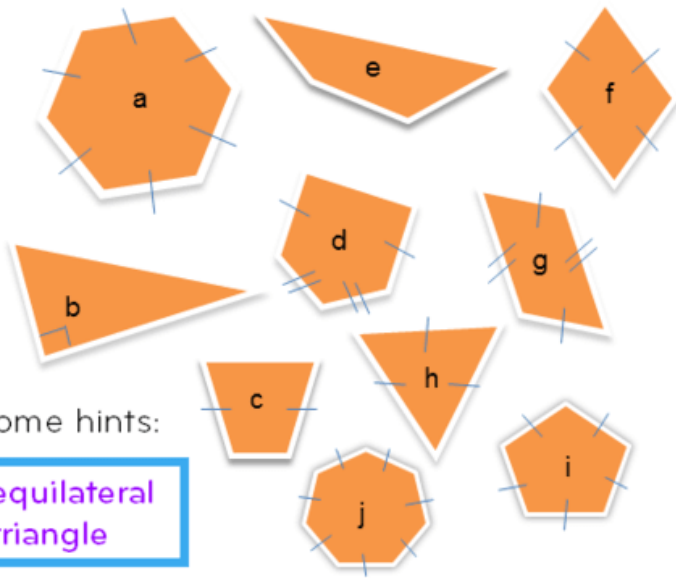
First we are going to revise:

- names and properties of 2D shapes

You are revising 2D shapes (Meeting Y6 expectations)

Revision: 2D shapes

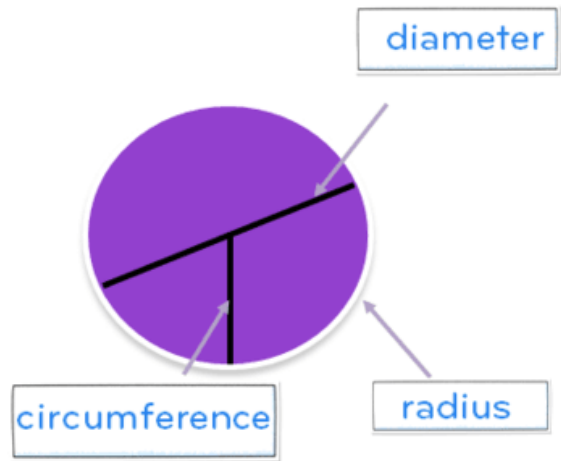
1. Name these **polygons** and if they are **regular** or **irregular**.



Some hints:

- equilateral triangle
- parallelogram
- pentagon
- trapezium
- rhombus
- scalene triangle

2. Which labels below are **incorrect**?



3. Explain the difference between an **obtuse** and **acute** angle?

Revision: Types of triangle

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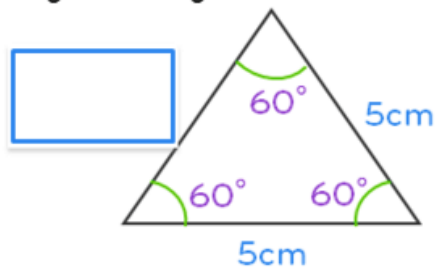
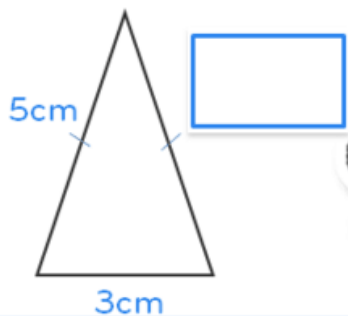
1. Equilateral triangle:

- All the sides are the same length.
- All the angles are equal.
- Each angle is 60 degrees.



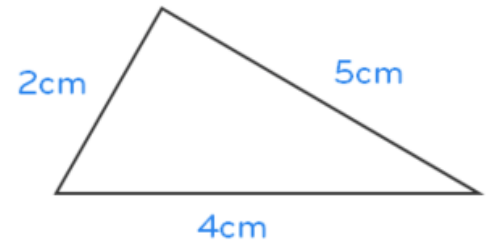
2. Isosceles triangle:

- Two equal angles.
- Two equal sides.



3. Scalene right-angled triangle:

- One right angle.
- Two other unequal angles.
- No equal sides.



4. Right angled triangle:

- One 90° angle. Little square shows it is a right angle.

Question: All my sides are the same length. What triangle am I?

You are revising 2D shapes (Meeting Y6 expectations)

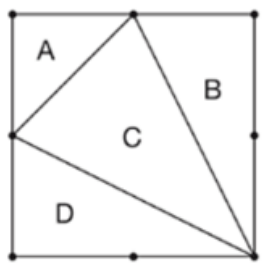
Question 1

Complete

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

This diagram shows a square with dots at the vertices and at the middle of each side.

The square is divided into four triangles, **A**, **B**, **C** and **D**.

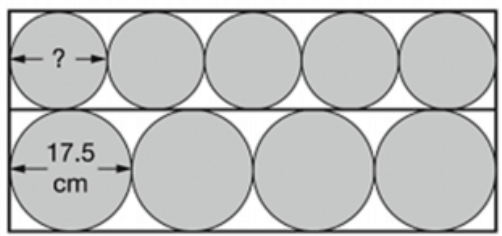


Write the letters of all the triangles that have **two equal sides**.

Question 2

Complete

Four large circles and five small circles fit exactly inside this rectangle.



Not actual size

The **diameter** of a large circle is **17.5** centimetres.

Calculate the **diameter** of a small circle.

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

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Let's review:

Know the names and properties of 2D

Draw a circle around the smiley face to show how you feel about what we've just been doing.

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CHALLENGE

Complete

A square always has four sides.

Is it true that a four-sided shape is **always** a square?

Circle **Yes** or **No**.

Yes / No

Explain how you know.

1. What do you notice?
2. What do you know?
3. Can you show your working out?
4. How could you extend the question?

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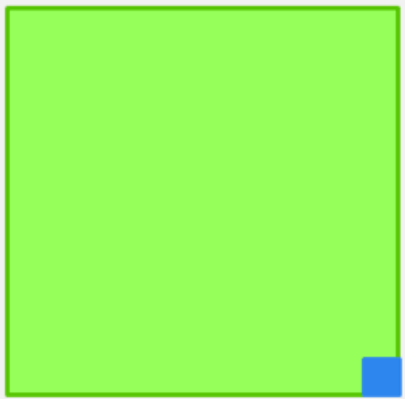
Square



A square has ____ straight sides.

A square has ____ corners.

corner

sides = same length

____

Types of triangle

Right angled triangle:

- One 90° angle. Little square shows it is a right angle.

Scalene right-angled triangle:

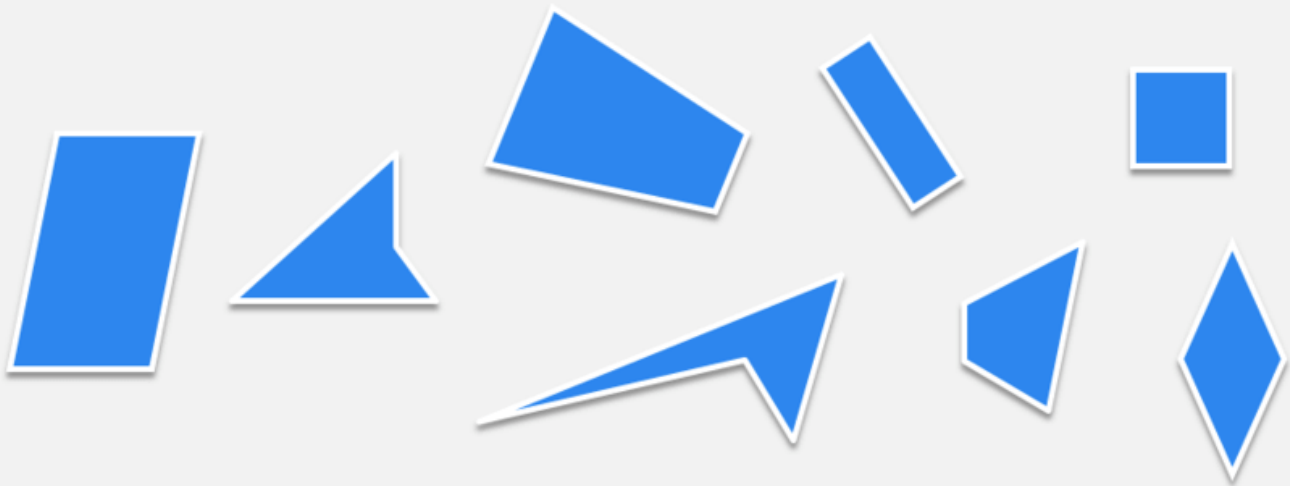
- One right angle.
- Two other unequal angles.
- No equal sides.

Isosceles right-angled triangle:

- One right angle.
- Two other equal angles.
- Two equal sides.

What is a quadrilateral?

All these shapes are quadrilaterals. What do they have in common?



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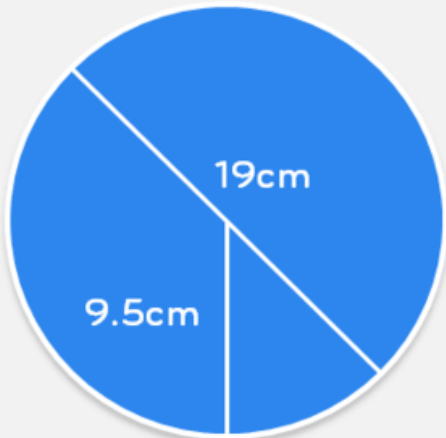
Circle parts

Draw the radius and diameter on the green circle.



What do you notice about the diameter and radius on these circles?