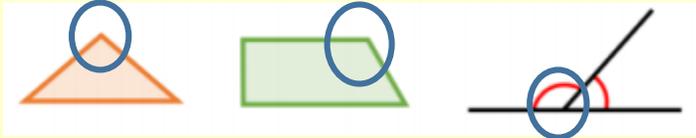
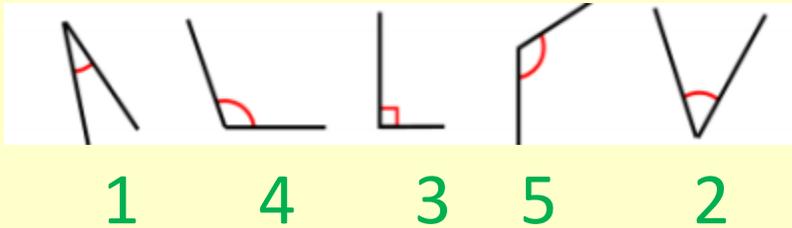


# Answers for Tuesday Maths

1.



2.



3. Angle  $a >$  angle  $c$

Angle  $b <$  angle  $a$

Angle  $d <$  angle  $a$

4.  $c, b, a, d$

Angle  $d$  is smaller than angle  $b$ .

Angle  $c$  is larger than angle  $a$ .

5. Angle  $e$  is the odd one out. Angle  $b$  and  $c$  are both right angles. Angle  $a$  and  $d$  are both half of a right angle. Angle  $e$  is an obtuse angle.

Challenge:

1. Angle  $a$  and  $b$  are the same size. Ron has mixed up the lengths of the lines with the size of the angle.

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

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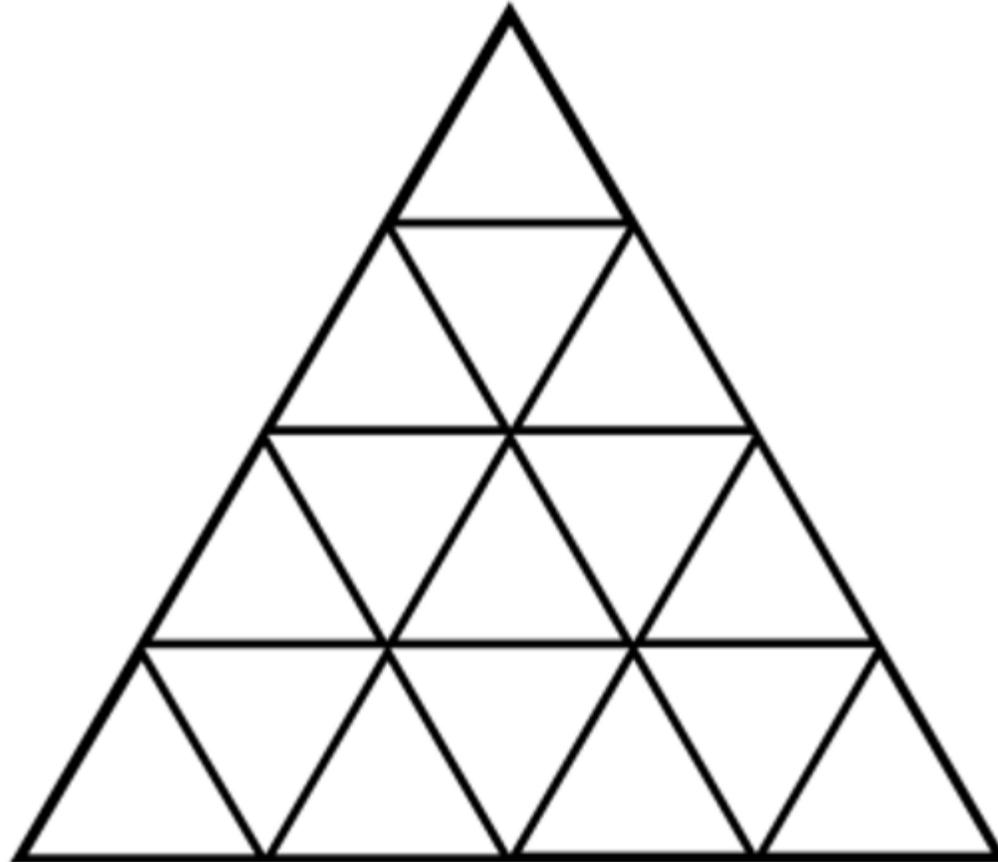
I can compare and classify geometric shapes.

Recap on the different types of triangles:

<https://www.bbc.co.uk/bitesize/topics/zvmxsbk/articles/zggsfrd>

# Starter – How many triangles can you see?

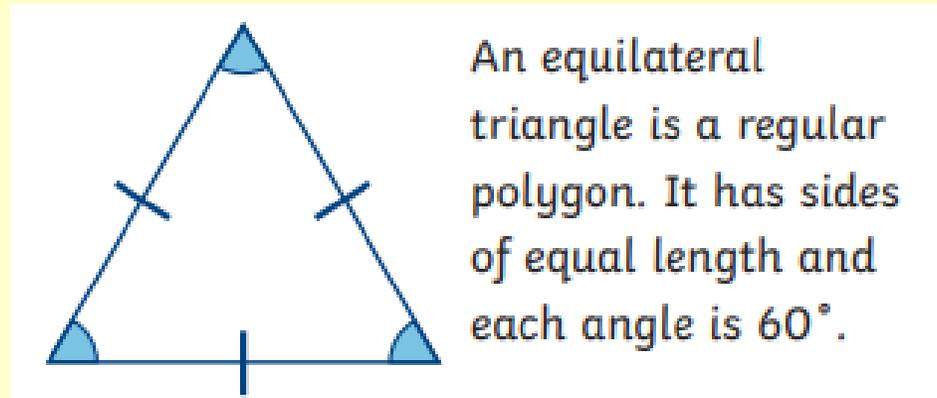
- What type of triangles are they?
- How do you know?



Answer:

I could see 23 different triangles...how many did you see?

These triangles are all equilateral triangles because all sides are the equal and all angles are equal.

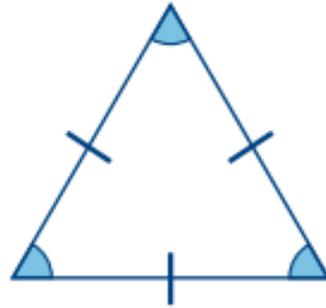


# Types of triangles:

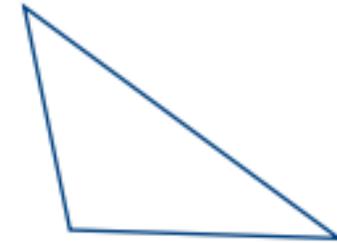
Triangles have three sides and 3 vertices. The total of all 3 angles is  $180^\circ$

Can you find examples of these triangles in your house?

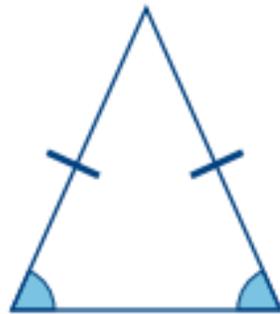
If you can't find them can you make these triangles?



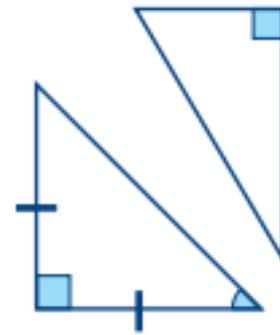
An equilateral triangle is a regular polygon. It has sides of equal length and each angle is  $60^\circ$ .



A scalene triangle has no equal sides or angles.



An isosceles triangle has two sides of equal length and two angles of equal size.



A right-angled triangle always has one  $90^\circ$  angle.

It can be isosceles or scalene.

# Activities:

1. Draw an example of a right – angled triangle, isosceles, scalene and an equilateral triangle.

2. If I have 9 straws I can only make an equilateral triangle. Am I correct? Investigate using straws. (or pencils)

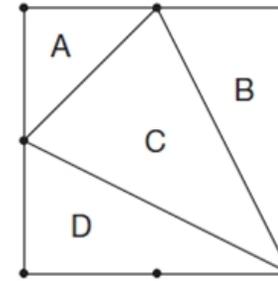
3. Can you create an picture that uses 4 right angles, 4 isosceles triangles, 2 scalene triangles and 3 equilateral triangles.

They can all be different sizes. Take a photo for your teacher. Label each triangle including the angles.

4.

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.



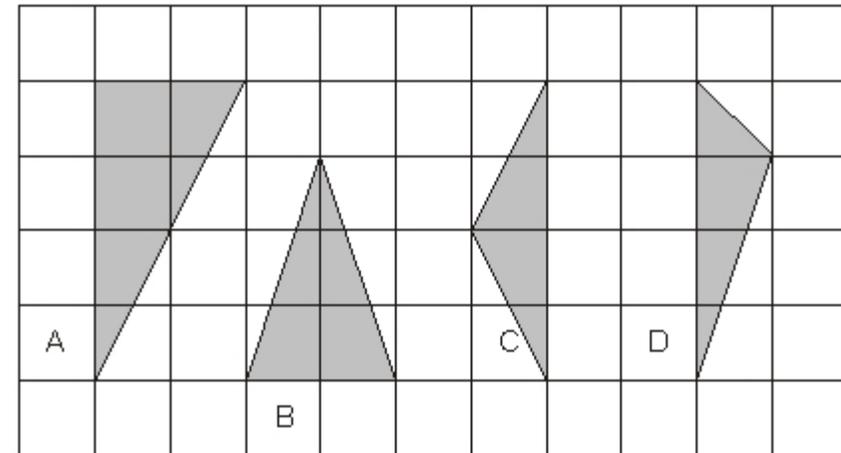
Write the letters of all the triangles that have a **right angle**.

\_\_\_\_\_

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

\_\_\_\_\_

5.

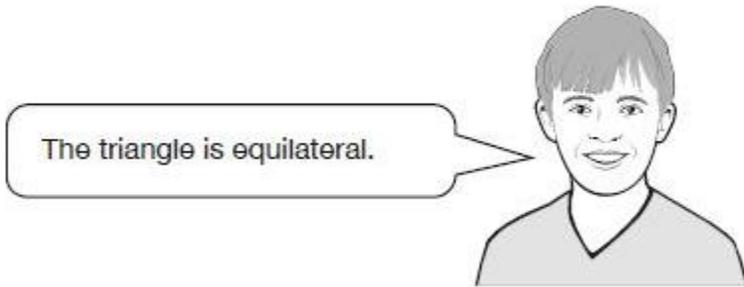


Write the letters of the **two isosceles** triangles.

# Challenge:

1. Two of the angles in a triangle are  $70^\circ$  and  $40^\circ$

Jack says,



Explain why Jack is **not** correct.

## 2. Convince me

Ayub says that he can draw a right angled triangle which has another angle which is obtuse.

Is he right?

Explain why.