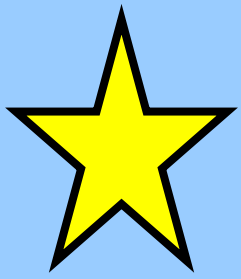


Maths





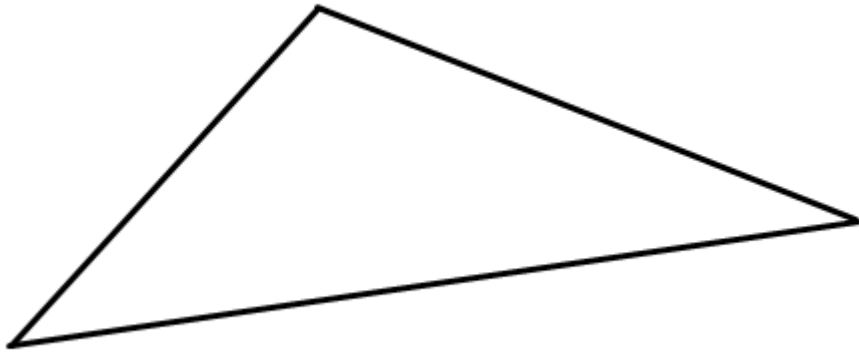
WALT



WALT find angles in a triangle
I can:

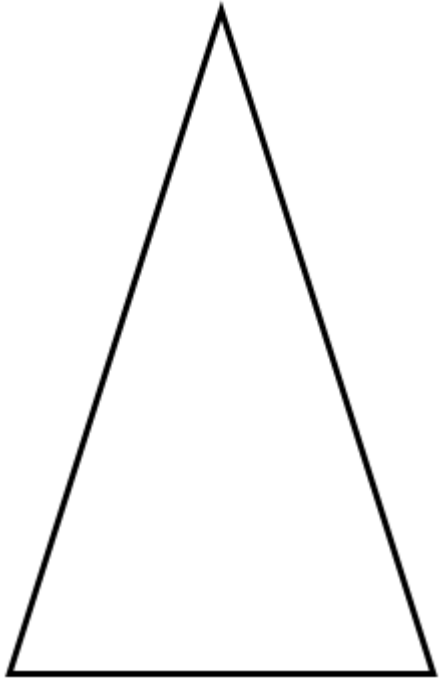
- name the different types of triangles.
- name the properties of different triangles.
- add and subtract to find missing angles.





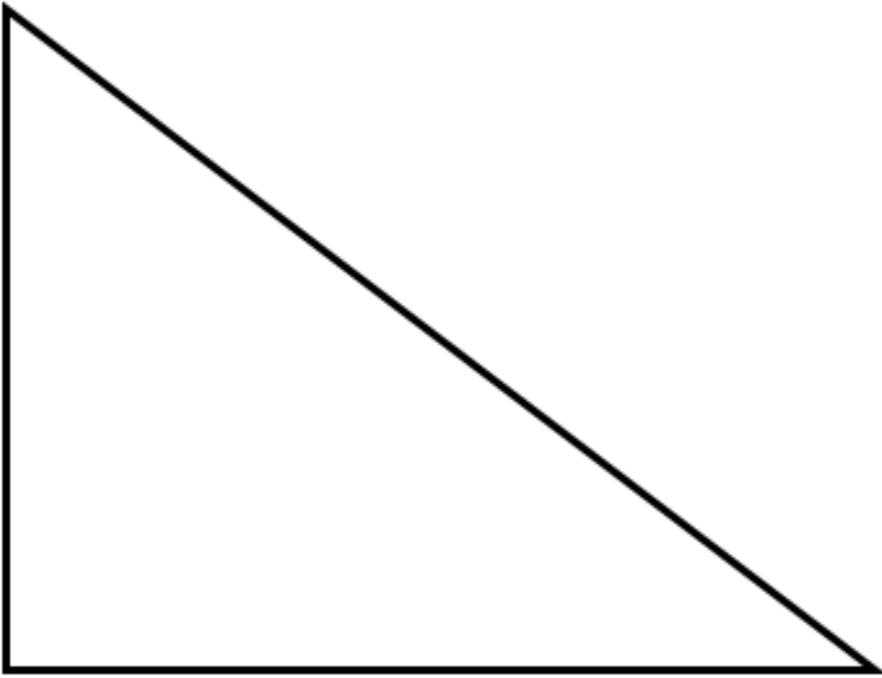
Scalene

- It has three sides
- All the sides are different lengths
- All the angles are different sizes



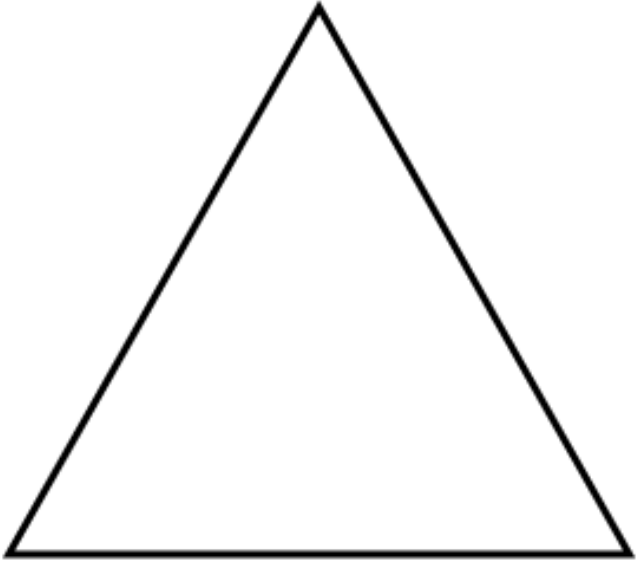
Isosceles

- It has three sides
- It has a pair (2) of equal sides
- It has two equal angles



Right-angled triangle

- It has three sides
- It has a right-angle



Equilateral

- It has three sides
- All of its sides are equal
- All of its angles are equal

Perpendicular lines

All angles equal

All sides equal

No equal sides

Some equal sides

Right-angles

Equal angles

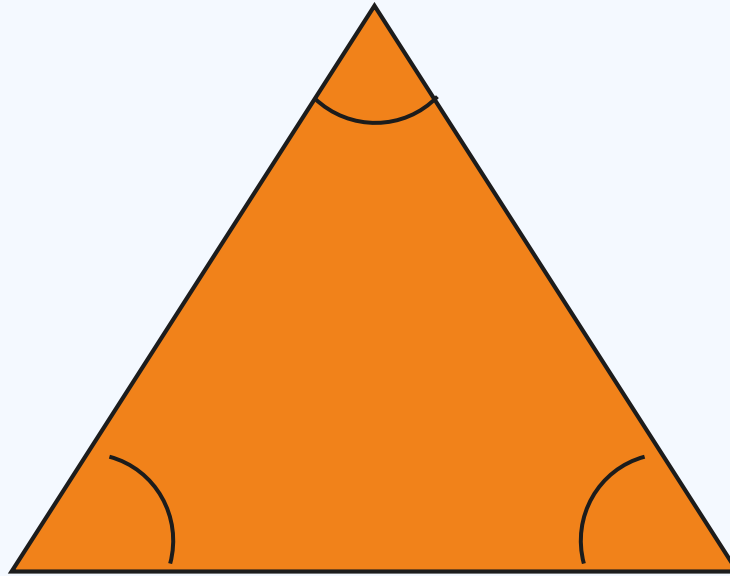


Triangles

The interior angles in a triangle always total 180° .

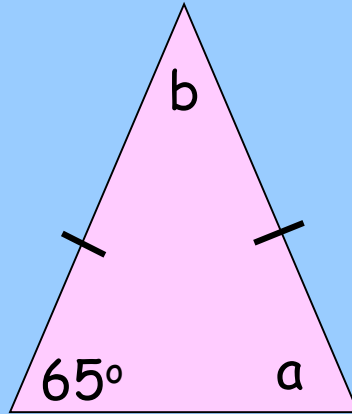
This means that if the triangle is equilateral, and the all the angles are equal then each angles must be 60°

$$180 \div 3 = 60$$



Isosceles Triangle

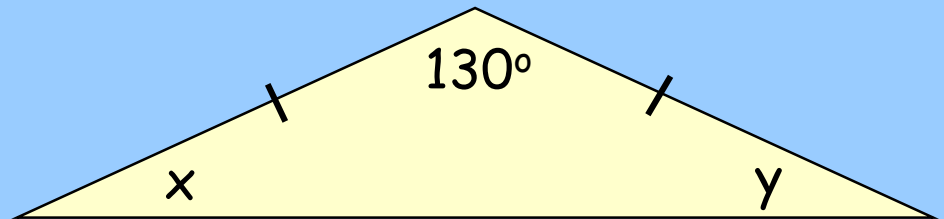
Calculate angle a



Angle a = 65° (base angles of an isosceles triangle are equal).

$$\begin{aligned}\text{Angle } b &= 180 - (65 + 65) \\ &= 180 - 130 = 50^\circ\end{aligned}$$

Calculate angles x and y



$$\begin{aligned}\text{Angles } x \text{ and } y &= \frac{180 - 130}{2} \\ &= \frac{50}{2} = 25^\circ\end{aligned}$$

