09.06.19

WALT understand the angles in isosceles and equilateral triangles.

Mathematical Talk

How can we identify sides which are the same length on a triangle?

How can we use the use the hatch marks to identify the equal angles?

If you know one angle in an isosceles triangle, what else do you know?

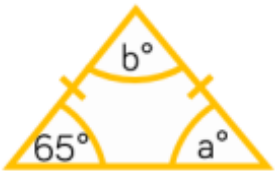
Can you have an isosceles right-angled triangle?

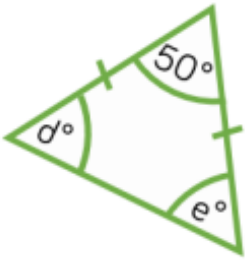
Use the types of triangle poster to answer these questions.

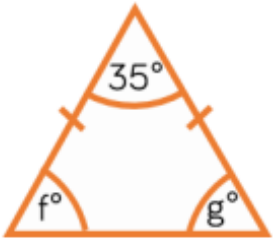
Varied Fluency

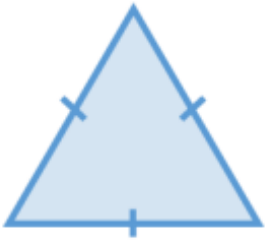
- Identify which angles will be identical in the isosceles triangles.

- Calculate the missing angles in the isosceles triangles.







- 

What type of triangle is this?
What will the size of each angle be?
How do you know?
Will this always be the same for this type of triangle?
Explain your answer.

I have an isosceles triangle.
One angle measures 42 degrees.

What could the other angles measure?

Alex

My angles are 70°, 70° and 40°

Mo

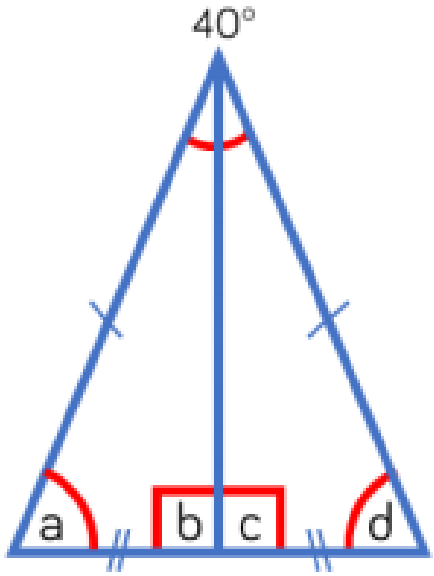
My angles are 45°, 45° and 90°

Eva

My angles are 60°, 60° and 60°

What type of triangle is each person describing?
Explain how you know.

How many sentences can you write to express the relationships between the angles in the triangles?
One has been done for you.



$40° + a + d = 180°$