

In this activity, we will be learning to identify triangles using information about their angles.

Remember that the interior angles of a triangle add up to  $180^\circ$

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

An **isosceles** triangle has two equal angles.

An **equilateral** triangle has three equal angles, each of size  $60^\circ$

A **scalene** triangle has no equal angles.

Let's try an example question.



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**Example**

Two of the angles in a triangle are  $35^\circ$  and  $110^\circ$ . Which type of triangle is it?

**Answer**

We must first work out the third angle which will be:

$$180^\circ - (35^\circ + 110^\circ) = 180^\circ - 145^\circ = 35^\circ$$

So the triangle has angles  **$35^\circ$** ,  $110^\circ$ ,  **$35^\circ$**

Two angles are equal, so it is **isosceles**.

Are you ready to have a go at this now?



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

**Which type of triangle is it?**

Answer:

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Two of the angles in a triangle are  $50^\circ$  and  $40^\circ$

**Which type of triangle is it?**

Answer:

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Two of the angles in a triangle are  $50^\circ$  and  $80^\circ$

**Which type of triangle is it?**

Answer:

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Two of the angles in a triangle are  $50^\circ$  and  $60^\circ$

**Which type of triangle is it?**

Answer:

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Two of the angles in a triangle are  $30^\circ$  and  $30^\circ$

**Which type of triangle is it?**

Answer:

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Two of the angles in a triangle are  $60^\circ$  and  $60^\circ$

**Which type of triangle is it?**

Answer:

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Two of the angles in a triangle are  $45^\circ$  and  $45^\circ$

What two types of triangles would it be possible for this to be?

Answer:

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Two of the angles in a triangle are  $45^\circ$  and  $75^\circ$

Which type of triangle is it?

Answer:

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Two of the angles in a triangle are  $56^\circ$  and  $34^\circ$

**Which type of triangle is it?**

Answer:

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Two of the angles in a triangle are  $23^\circ$  and  $134^\circ$

**Which type of triangle is it?**

Answer:

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