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Congruent Figures in Geometry**

What are Congruent Figures?

Congruent figures are figures that have the same shape and size. This means that their corresponding sides and angles are equal.

How to Understand and Recognize Congruent Figures

To determine if two figures are congruent, you can:

- Measure their corresponding sides and angles to check if they are equal.
- Use a protractor or compass to compare their angles and sides.
- Flip, slide, or rotate one figure over the other to see if they match perfectly.

The 4 Rules for Congruent Triangles

There are four rules that determine when two triangles are congruent:

- **SSS:** Side-Side-Side (All three sides of the triangles are equal)
- **SAS:** Side-Angle-Side (Two sides and the included angle of the triangles are equal)
- **ASA:** Angle-Side-Angle (Two angles and the included side of the triangles are equal)
- **AAS:** Angle-Angle-Side (Two angles and the non-included side of the triangles are equal)

Example of 4 Congruent Sides

A square is an example of a figure with four congruent sides.

Congruent Figure Example

A circle is an example of a congruent figure because all of its radii are equal.

4 Congruent Angles

A rectangle is an example of a figure with four congruent angles.

Congruent Figures Grade 7

In Grade 7 geometry, students learn about congruent figures and the rules for determining congruence.

How to Draw Congruent Figures

To draw congruent figures, you can use:

- A ruler or straight edge to ensure that lines are parallel or equal in length.
- A protractor to measure and create equal angles.
- A compass to draw congruent circles or arcs.

How to Tell if a Figure is Congruent

You can tell if a figure is congruent by:

- Comparing its dimensions (sides, angles) to another figure.
- Using congruence theorems (e.g., SSS, SAS) to prove congruence.

How to Find Congruent Triangles

To find congruent triangles, you can look for:

- Similar triangles (triangles with the same proportions)
- Triangles with corresponding angles and sides that are equal.

How to Tell if a Triangle is Similar

A triangle is similar to another triangle if it has:

- Equal angles.
- Proportional sides.

How Many Congruence Rules are There?

There are four congruence rules for triangles: SSS, SAS, ASA, and AAS.

What are the 12 Types of Triangles?

There are twelve types of triangles based on their side lengths and angle measures.

What is a Similar Shape?

A similar shape is a shape that has the same shape but not necessarily the same size.

Why is SSA Congruence Not Possible?

SSA congruence (Side-Side-Angle) is not possible because a triangle can have different shapes with the same side lengths and angle.

What does SAS Look Like in Geometry?

SAS congruence is a theorem that states that two triangles are congruent if two sides and the included angle are congruent.

Is Every Square a Rectangle?

Yes, every square is a rectangle.

Is Every Rectangle a Parallelogram?

Yes, every rectangle is a parallelogram.

Is a Trapezoid a Parallelogram?

No, a trapezoid is not a parallelogram.

What are the 4 Congruent Triangles?

The four congruent triangles are the four triangles that can be formed from a given triangle by reflecting one side over the other two and reflecting the other side over the first two.

What does Congruent to 1 mod 4 Mean?

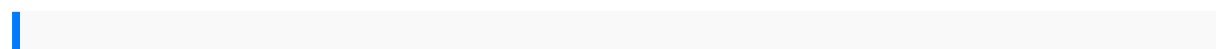
Congruent to 1 mod 4 means that two numbers have a difference of 1 when divided by 4.

Are 1 and 4 Congruent?

No, 1 and 4 are not congruent.

What is the Theorem 4-1 in Geometry?

Theorem 4-1 in geometry states that "If two triangles are congruent, then their corresponding parts are congruent."



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