

CONGRUENCE OF TRIANGLES

The congruent triangle is a significant concept in math. Two triangles of similar shape and size are referred to as congruent. This page will provide an overview of the congruent triangle concept, its significance, and its formulas. At the end of this page, you will find a worksheet that will help you analyze your understanding of this concept.

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Q1: Which congruence criterion involves matching two sides and the included angle of two triangles?

- A: Side-Side-Side (SSS)
 - B: Side-Angle-Side (SAS)
 - C: Angle-Side-Angle (ASA)
 - D: Hypotenuse-Leg (HL)
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Q2: Which congruence criterion involves matching two angles and the included side of two triangles?

- A: Side-Side-Side (SSS)
 - B: Side-Angle-Side (SAS)
 - C: Angle-Side-Angle (ASA)
 - D: Hypotenuse-Leg (HL)
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Q3: Which of the following is NOT a congruence criterion for triangles?

- A: SSS
 - B: SSA
 - C: SAS
 - D: ASA
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Q4: Are similar triangles and congruent triangles similar?

- A: Yes
 - B: No
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Q5: Which criteria need to be followed for a right-angle triangle?

- A: Side-Side-Side (SSS)
 - B: Side-Angle-Side (SAS)
 - C: Angle-Side-Angle (ASA)
 - D: Hypotenuse-Leg (HL)
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Q6: When will triangles ABC and XYZ be congruent?

- A: When $AB=XY$, $BC=YZ$, $AC=ZX$
 - B: When both triangle shapes are equal to each other
 - C: When angles and sides are opposite to each other
 - D: When triangle is isosceles
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Q7: Congruent can be used on which type of triangle?

- A: Right angle
 - B: Isosceles
 - C: Equilateral
 - D: All of the Above
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Q8: What kind of criteria can be used for the Isosceles triangle?

- A: Side-Side-Side (SSS)
 - B: Side-Angle-Side (SAS)
 - C: Angle-Side-Angle (ASA)
 - D: Hypotenuse-Leg (HL)
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Q9: What is a similar triangle?

- A: Triangle that is similar to congruent
 - B: A Similar triangle has the same sides
 - C: A similar triangle does have the same shape
 - D: A similar triangle has the same shape, not sides
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Q10: In which sectors can the congruent triangle concept be used?

- A: Engineering
 - B: Architecture
 - C: Construction
 - D: All of the above
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Answers

Q1: B - Side-Angle-Side (SAS)

Q2: C - Angle-Side-Angle (ASA)

Q3: B - SSA

Q4: B - No

Q5: D - Hypotenuse-Leg (HL)

Q6: A - When $AB=XY$, $BC=YZ$, $AC=ZX$

Q7: D - All of the Above

Q8: A - Side-Side-Side (SSS)

Q9: D - A similar triangle has the same shape, not sides

Q10: D - All of the above