

# Triangle Congruence Printable Worksheet

Identify the triangle congruence rule or answer the question. An answer key is included on the final page.

1. Two triangles have all three pairs of corresponding sides congruent. Which triangle congruence rule applies?

2. Two triangles have two pairs of corresponding sides congruent, and the angle between those sides is congruent. Which rule applies?

3. Two triangles have two pairs of corresponding angles congruent, and the included side between those angles is congruent. Which rule applies?

4. Two triangles have two pairs of corresponding angles congruent, and a side that is not between those angles is congruent. Which rule applies?

**5.** Two right triangles have congruent hypotenuses and one pair of congruent legs. Which rule applies?

**6.** Two triangles have all three pairs of corresponding angles congruent. Does this prove the triangles are congruent?

**7.** You are given:  $AB$  is congruent to  $DE$ ,  $BC$  is congruent to  $EF$ , and angle  $B$  is congruent to angle  $E$ . What congruence rule proves triangle  $ABC$  congruent to triangle  $DEF$ ?

**8.** You are given: angle  $A$  is congruent to angle  $D$ , angle  $B$  is congruent to angle  $E$ , and  $AC$  is congruent to  $DF$ . What congruence rule proves triangle  $ABC$  congruent to triangle  $DEF$ ?

## Answer Key

1. SSS
2. SAS
3. ASA
4. AAS
5. HL
6. No. AAA proves similarity, not congruence.
7. SAS
8. AAS