CONNECTICUT GEOMETRY · UNIT 1 · 10 QUESTIONS

Congruence and Similarity — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A triangle has two sides of lengths 5 and 7. The greatest possible whole number length of the third side is**

- A 12
- B 10
- C 11
- D 2

Understand It with Pulse | Flag a mistake

2 **A triangle has two sides of lengths 4 and 9. The greatest possible whole number length of the third side is**

- A 13
- B 11
- C 5
- D 12

Understand It with Pulse | Flag a mistake

3 **A triangle has two sides of lengths 6 and 8. The greatest possible whole number length of the third side is**

- A 13
- B 14
- C 12
- D 2

Understand It with Pulse | Flag a mistake

4 **A triangle has two sides of lengths 3 and 10. The greatest possible whole number length of the third side is**

- A 13
- B 12
- C 11
- D 7

Understand It with Pulse | Flag a mistake

5 **A triangle has two sides of lengths 7 and 7. The greatest possible whole number length of the third side is**

- A 14
- B 12
- C 13
- D 0

Understand It with Pulse | Flag a mistake

6 **Two triangles have all three pairs of corresponding sides equal. The congruence criterion that applies is**

- A SAS
- B ASA
- C AAS
- D SSS

Understand It with Pulse | Flag a mistake

7 **Two triangles have two pairs of corresponding sides equal, and the included angles are equal. The congruence criterion is**

- A SAS
- B SSS
- C ASA
- D AAS

Understand It with Pulse | Flag a mistake

8 **Two triangles have two pairs of corresponding angles equal, and the included sides are equal. The congruence criterion is**

- A SSS
- B ASA
- C SAS
- D AAS

Understand It with Pulse | Flag a mistake

9 **Two right triangles have equal hypotenuses and one pair of equal legs. The congruence criterion that applies is**

- A SSS
- B SAS
- C HL
- D ASA

Understand It with Pulse | Flag a mistake

10 **Two triangles have two pairs of corresponding angles equal. The triangles are similar by**

A SSS

B SAS

C HL

D AA

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	C	**9.**	C
2.	D	**6.**	D	**10.**	D
3.	A	**7.**	A		
4.	B	**8.**	B		

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