Congruence and Similarity — Practice Test

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1 **A roof truss is built from triangles. Two triangles have two pairs of corresponding angles equal, and a pair of nonincluded sides equal. The congruence criterion is**



A SSS

B AAS

C ASA

D HL

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2 **One triangle has angles 40° and 70°. Another triangle has angles 40° and 70°. The triangles are similar by**

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

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3 **Under a dilation centered at the origin with scale factor 0.5, the point (8, 6) maps to**

- A (16, 12)
- B (4, 3)
- C (8, 3)
- D (4, 6)

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4 In a triangle, a midsegment is parallel to a base of length 22. The length of the midsegment is

- A 22
- B 44
- C 11
- D 5.5

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5 Two similar triangles have a linear scale factor of 3:4. The smaller triangle has perimeter 27. The larger perimeter is

- A 20.25
- B 48
- C 36
- D 81

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ANSWER KEY

1. B
2. C
3. B
4. C
5. C

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