Congruent & Similar Triangles: The Four Conditions

WORKSHEET

Name: _____ Class: _____

Date: _____ MARK ____ / 15

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

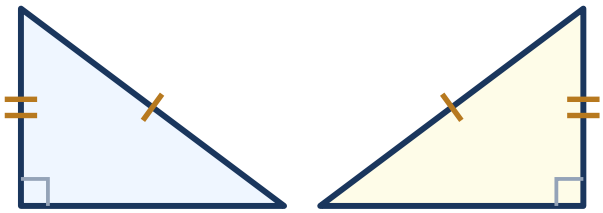
1 Name the four conditions for congruent triangles. (4)

2 Why is AAA not a congruency condition? (2)

3 In SAS, where must the equal angle be? (1)

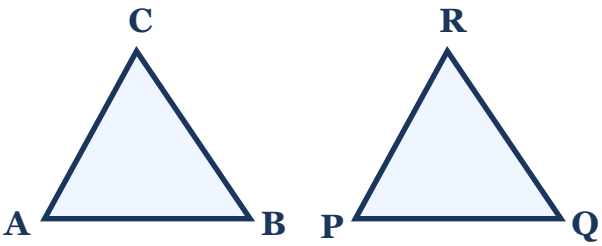
4 Which condition applies only to right-angled triangles? (1)

R · H · S

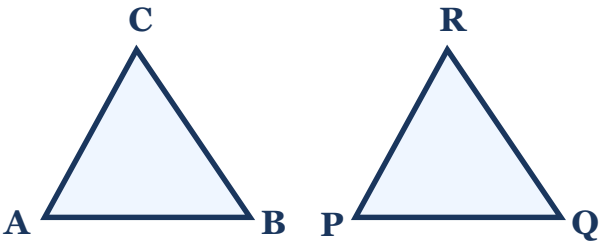


equal hypotenuse, equal side

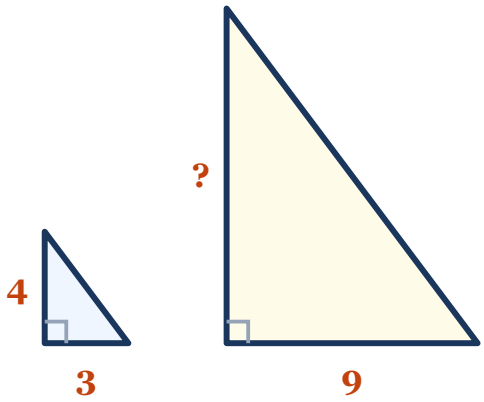
5 If △ABC ≡ △PQR, which side equals BC? (1)



6 If △ABC ≡ △PQR, which angle equals Â? (1)

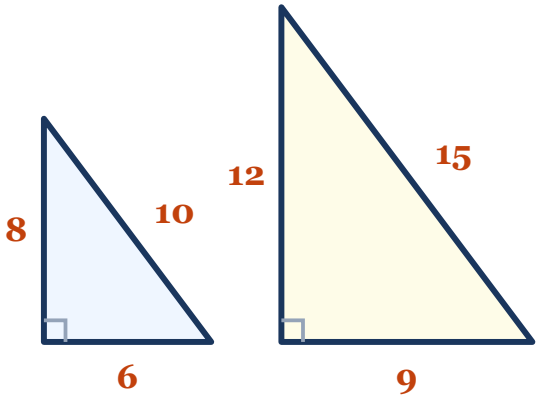


7 △ABC ||| △DEF with AB = 3, DE = 9 and BC = 4. Find EF. (2)



drawn at the same scale

8 The two triangles below are drawn to the same scale. Determine whether they are similar, giving a reason, and write down the scale factor from the smaller to the larger. **(3)**



drawn at the same scale

TOTAL: 15 marks

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