bananalearn

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Congruent triangle proof steps for Grade 9

Practice worksheet - Maths · Grade 9

Name: _____ Date: _____

Show your working. Answers are not included in this copy.

Try each task before opening its answer. Give an example or reason, not only a label.

Write an answer and your reason before opening the explanation. Check the reasoning as well as the final answer.

1. Three corresponding equal sides give which condition?

2. Two sides and their included angle?

3. Two angles and the included side?

4. If ABC matches PQR, which side matches AC?

5. If triangle ABC corresponds to triangle PQR in that order, which angle matches angle C?

6. Why can AC=AC appear in a proof?

7. Where is the hypotenuse?

8. For two right triangles, do equal hypotenuses alone prove congruence?

Practice continued

9. Does AAA prove congruence?

10. Does any two sides and any angle guarantee congruence?

11. Can a side be declared equal because it looks equal?

12. If A↔R, B↔P, C↔Q, complete ABC≅___.

13. Can corresponding parts be used before congruence is proved?

14. Why can two angles and a non-included corresponding side determine congruence?