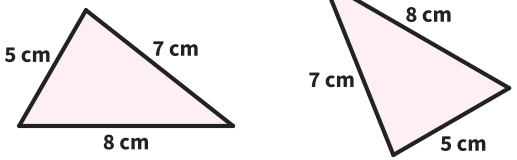
Congruent triangles

1 The triangles are congruent. Circle the condition.

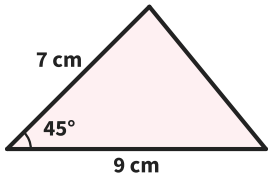


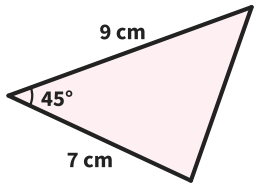
Sides given 3

Angles given 0

SSS SAS ASA RHS

2 The triangles are congruent. Circle the condition.



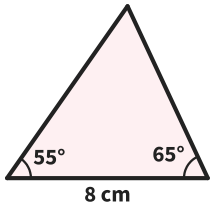


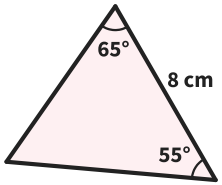
Sides given 2

Angles given

SSS SAS ASA RHS

3 The triangles are congruent. Circle the condition.



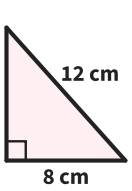


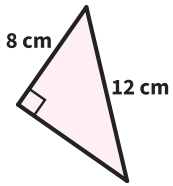
Sides given

Angles given

SSS SAS ASA RHS

4 The triangles are congruent. Circle the condition.





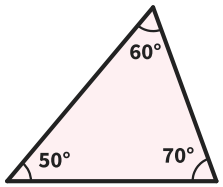
Sides given

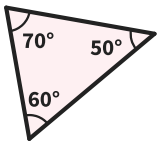
Angles given

SSS SAS ASA RHS

5 Are the triangles congruent? Give a reason.

Notice the change!

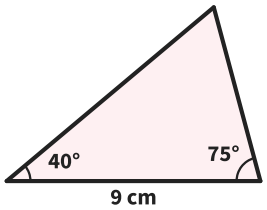


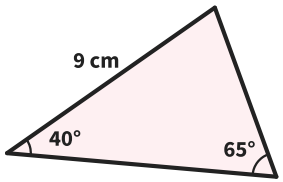


Yes No

Reason _____

6 Find the third angle of the second triangle. Are the triangles congruent? Give a reason.



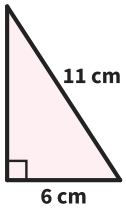


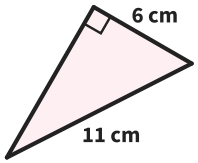
180° – 40° – 65° = _____

Yes No

Reason _____

7 Ben says the triangles are congruent by SAS. Explain why Ben is wrong. Give the right condition.

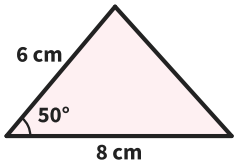


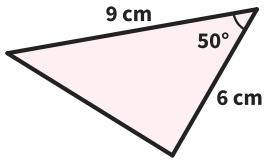


_____

Condition _____

8 Are the triangles congruent? Give a reason.



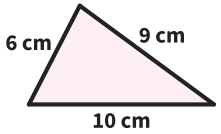


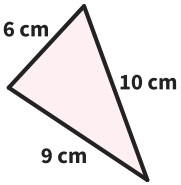
Yes No

Reason _____

Congruent triangles *further practice*

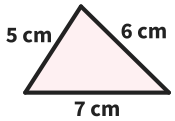
9 Are the triangles congruent? Give a reason.



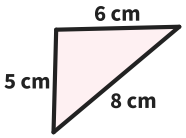


Answer _____

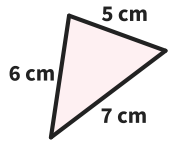
10 Which two of these triangles are congruent? Give a reason.



A



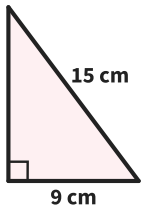
B

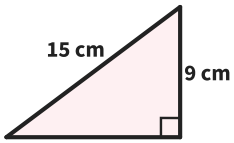


C

Answer _____

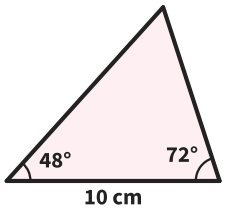
11 Two set squares each have a right angle, a longest side of 15 cm and another side of 9 cm. Are they congruent? Give a reason.

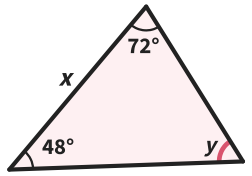




Answer _____

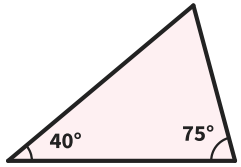
12 Two triangular flags are congruent. Find x and y.

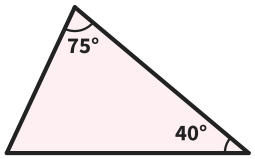




Answer _____

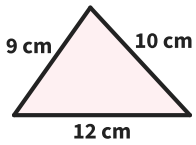
13 Each triangle has angles of 40° and 75°. What else would you need to know to show they are congruent by ASA?

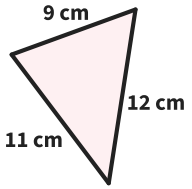




Answer _____

14 Two triangular patches for a quilt are cut out. Are the patches congruent? Give a reason.



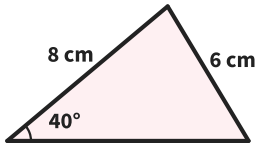


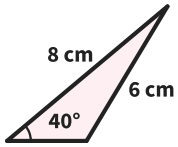
Answer _____

15 Two triangles both have angles of 30°, 65° and 85°. Lily says they must be congruent. Is she right? Explain.

Answer _____

16 Both triangles have a 40° angle, an 8 cm side and a 6 cm side. Kofi says they are congruent by SAS. Is Kofi right? Explain.





Answer _____