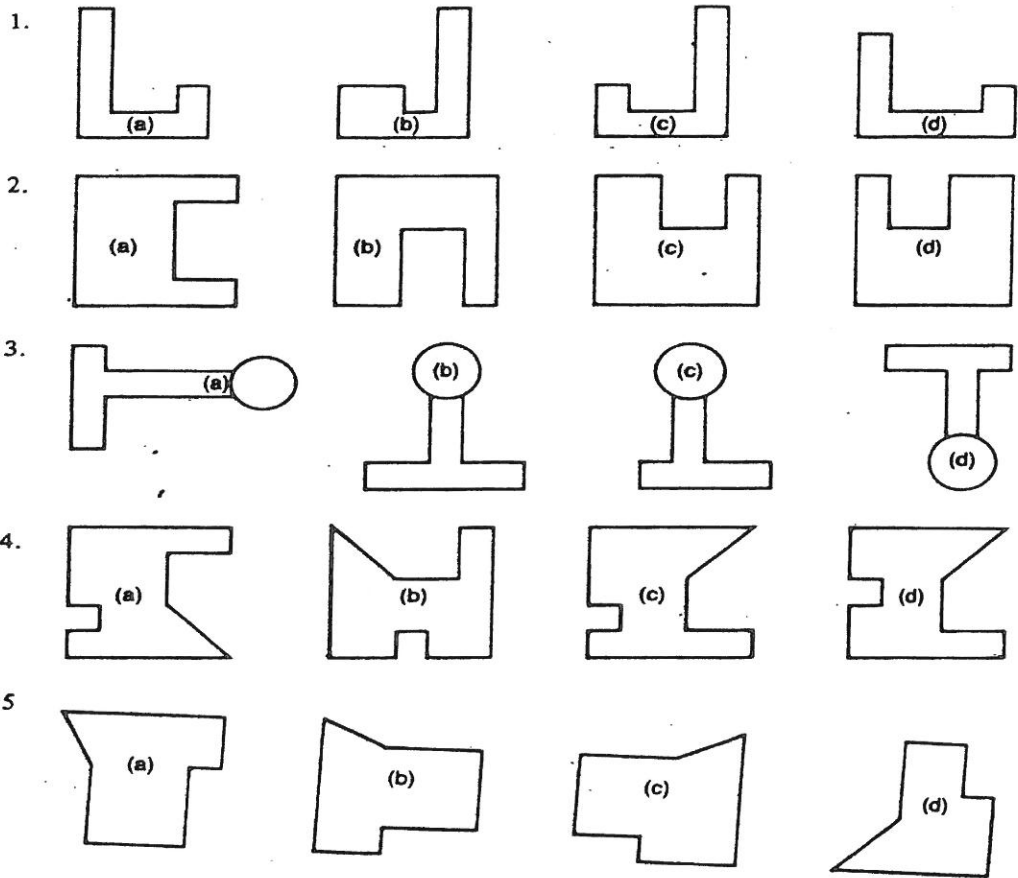


# Year 9 HOMEWORK SHEET: Congruence

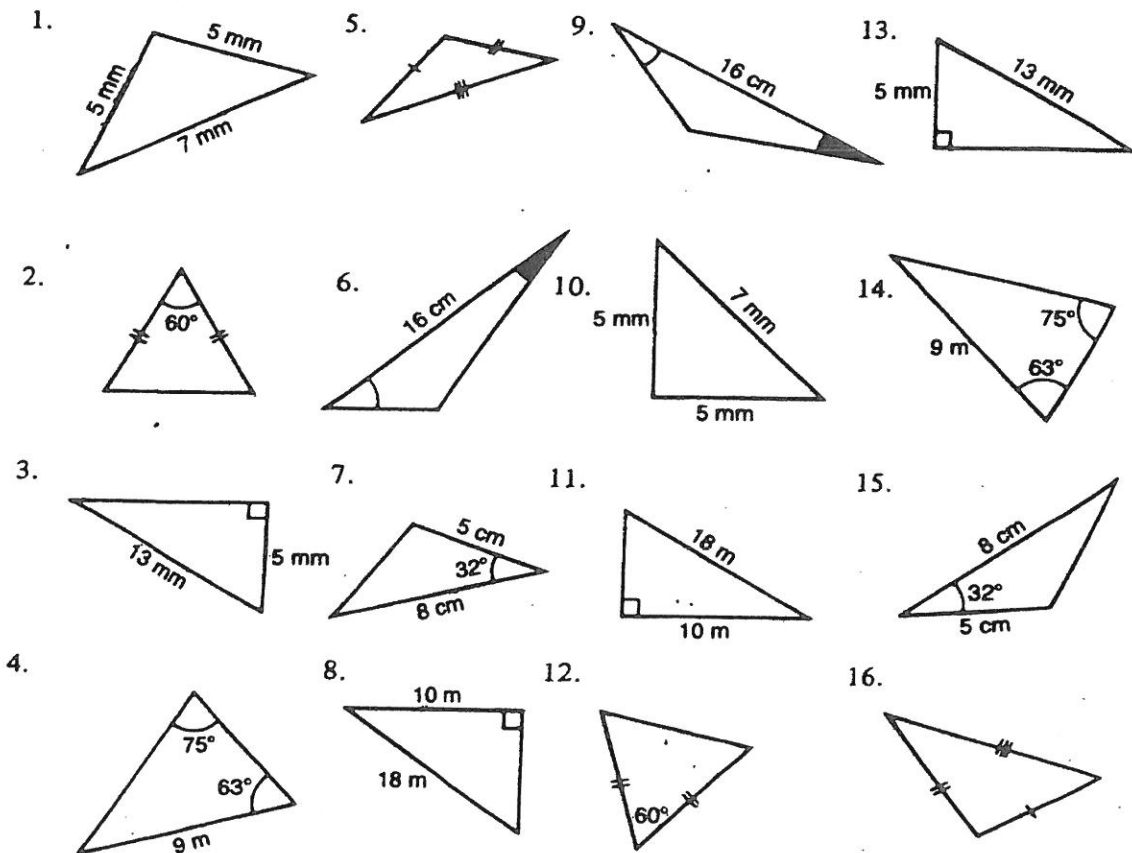
Term 4, Week 1

Name: .....

Find the *congruent* pair from each set of figures.



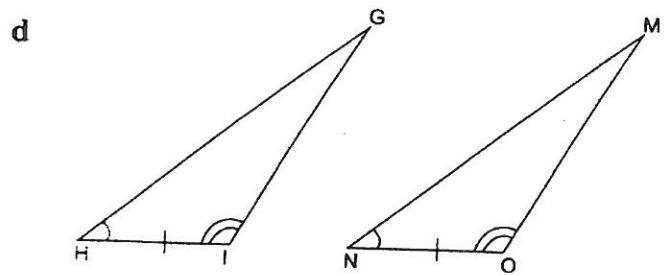
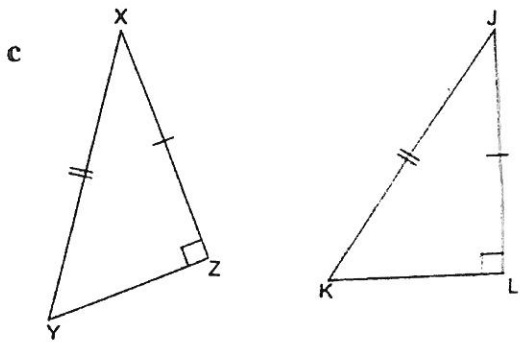
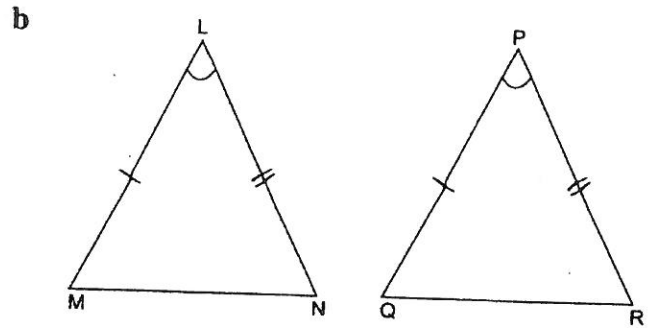
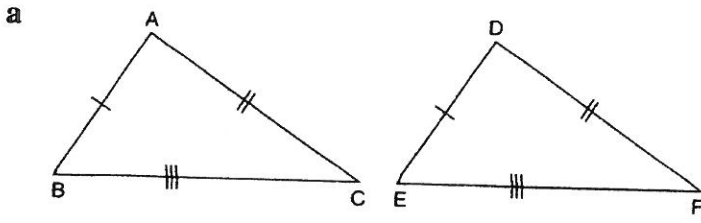
Find and list the 8 congruent pairs of triangles from the 16 triangles drawn:



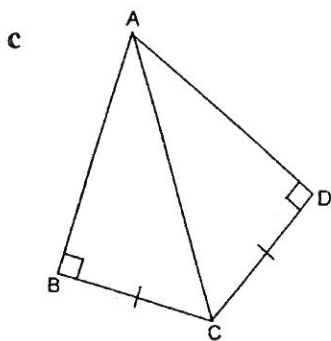
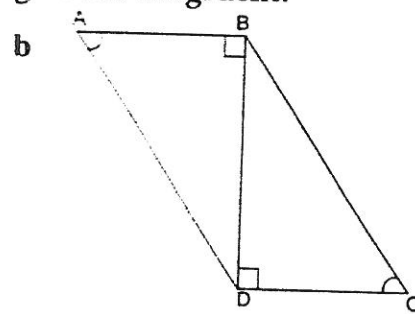
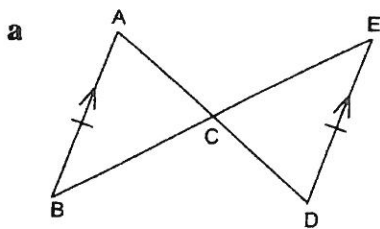
How did you find equal pairs in this exercise? - List the test of congruence that you used for each pair:

# Year 9 HOMEWORK SHEET: Congruence and Similarity

**QUESTION 1** In each pair of triangles given below, prove that the triangles are congruent.



**QUESTION 2** Prove that the following pairs of triangles are congruent.

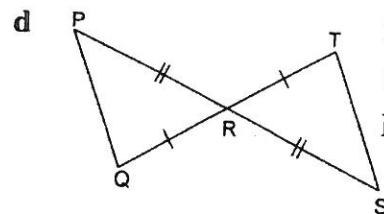


In this diagram  
 $BC = CD$  and  
 $\angle ABC = \angle ADC = 90^\circ$ .  
 Prove that  $\triangle ABC \cong \triangle ADC$ .

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In this diagram  
 $PR = SR$  and  $QR = TR$   
 Prove that  $\triangle PQR \cong \triangle STR$ .

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