Question 1: The following pairs of triangles are congruent, state the condition that shows they are congruent.

(a) \hspace{1cm} (b) \hspace{1cm} (c) 

(d) \hspace{1cm} (e) \hspace{1cm} (f) 

(g) \hspace{1cm} (h) \hspace{1cm} (i) 

Question 2: Shown are six triangles. Which triangles are congruent?

© CORBETTMATHS 2019
Question 3: In triangle ABC, $AB = 7\text{ cm}$, $\angle BAC = 50^\circ$ and $\angle ABC = 35^\circ$
In triangle DEF, $EF = 7\text{ cm}$, $\angle DEF = 35^\circ$ and $\angle DFE = 50^\circ$
Are triangles ABC and DEF congruent? If they are, state the condition.

Question 4: In triangle GHI, $GH = 7\text{ cm}$, $HI = 4\text{ cm}$ and $GI = 5\text{ cm}$.
In triangle JKL, $JK = 7\text{ cm}$, $KL = 4.5\text{ cm}$ and $JL = 5\text{ cm}$.
Are triangles GHI and JKL congruent? If they are, state the condition.

Question 5: In triangle MNO, $\angle MNO = 50^\circ$, $\angle NOM = 60^\circ$ and $\angle OMN = 70^\circ$
In triangle PQR, $\angle PQR = 50^\circ$, $\angle QRP = 60^\circ$ and $\angle RPQ = 70^\circ$
Are triangles MNO and PQR congruent? If they are, state the condition.

Question 6: In triangle STU, $SU = 13\text{ cm}$, $\angle TSU = 20^\circ$ and $\angle TUS = 30^\circ$
In triangle VWX, $WX = 13\text{ cm}$, $\angle WXV = 30^\circ$ and $\angle XVW = 20^\circ$
Are triangles STU and VWX congruent? If they are, state the condition.

Question 1: Hannah and Chris each draw a triangle with one side of 3cm, one angle of 35° and one angle of 80°.
Hannah says their triangles must be congruent.
Is Hannah correct?

Question 2: Paul and Greg each draw a triangle with one side of 3cm, one side of 9cm and one side of 10cm.
Greg says their triangles must be congruent.
Is Greg correct?

Question 3: Carl and Michael each draw a triangle with one angle of 58°, one angle of 68° and one angle of 54°.
Carl says their triangles must be congruent.
Is Carl correct?

Question 4: ABCD is a parallelogram.
Prove that triangles ABD and BCD are congruent.

Question 5: In the diagram, the lines CE and DF intersect at G.
CD and FE are parallel and $CD = FE$.
Prove that triangles CDG and EFG are congruent.