

Quiz: Congruence of Triangles - Numerical Practice with Congruence

1.	Two isosceles triangles are congruent, two equal sides of a triangle A measure 9. The two unequal sides of another triangle B measure 9 and 10 respectively. What is the length of third side of triangle A?	
2.	$\triangle ABC \cong \triangle A'B'C'$, AB is $3x + 4$ and $A'B'$ is $2x + 14$. Find the value of x .	
3.	$\triangle ABC$ is congruent to $\triangle A'B'C'$. If angle A corresponds to angle A' , the value of $\angle A'$ is $5x + 6$ and the value of $\angle A$ is 76° , find value of x .	
4.	Triangle PQR is congruent to triangle $P'Q'R'$. If PQ is represented by $4x + 16$ cm and $P'Q'$ is represented by $3x + 21$ cm, find the length of PQ & $P'Q'$.	
5.	Triangle ABC is congruent to triangle $A'B'C'$. If angle C is represented by $2x + 10$ and angle C' is represented by $x + 30$, find the measure of angle C.	
6.	Triangle ABC is congruent to triangle DEF with $AB \cong DE$. If $AB = x + 6$, and $DE = 2x + 1$, find the value of x .	
7.	$\triangle ABC \cong \triangle A'B'C'$, AB is $5x + 3$ and $A'B'$ is $4x + 19$. Find the value of x .	
8.	Triangle PQR is congruent to triangle ABC with $PQ = AB$, $QR = BC$ and $PR = AC$. If the sum of the measures of $\angle P$ and $\angle Q$ is 112° , what is the degree measure of $\angle C$?	
9.	$\triangle ABC \cong \triangle PQR$, if $AC = 9$ ft, which side of $\triangle PQR$ has the same measure?	
10.	$\triangle DEF \cong \triangle D'E'F'$, EF is $2x + 9$ and $E'F'$ is $3x + 8$. Find the value of x .	

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%