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Topic : <u>Geometric Constructions- Congruence - Worksheet 1</u>

Triangle DEF is congruent to triangle D'E'F' .If EF is

 represented by 4x-40 and E'F' is represented by 3x-15, find the value of x. Polygon STUV is congruent to polygon S'T'U'V' .If the

 value of angle S' is 2x+40 and the value of angle S is 4x+20, find angle S.

Triangle PQR is congruent to triangle GHI with PQ \approx GH.

3. If PQ = 4x-35, and GH = 2x+3, find the value of x.

Triangle JKL is congruent to triangle J'K'L'. If angle L is represented by 5x+3

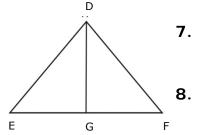
 and angle L' is represented by 4x+6, find the measure of angle L.

Triangle UVW is congruent to triangle U'V'W' .If VW is

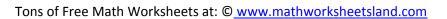
 represented by 5x-55 and V'W' is represented by x+5,find the value of x. Polygon ABCD is congruent to polygon A'B'C'D' .If the

 value of angle A' is 4x+35 and the value of angle A is 3x+50, find angle A.

Identify True or False dealing with Geometric Congruent



- If EG=GF and DE=DF then <EDG will be Congruent to <FDG.
- **8**. If DE=DF and EG=GF, DE will be not equal to DG.



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Topic : Geometric Constructions- Congruence - Worksheet 2

Triangle GHI is congruent to triangle G'H'I' .If HI is

 represented by 3x-35 and H'I' is represented by 2x-20, find the value of x. Polygon PQRS is congruent to polygon P'Q'R'S' .If the

 value of angle P' is 2x+35 and the value of angle P is 3x+30, find angle P.

Triangle JKL is congruent to triangle ABC with $JK \approx AB$.

If JK = 4x-34, and AB = 3x+6, find the value of x.

Triangle MNO is congruent to triangle M'N'O'. If angle O is represented by

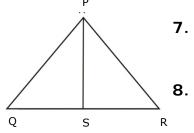
4. 4x+6 and angle O' is represented by 3x+9, find the measure of angle O.

Triangle DEF is congruent to triangle D'E'F' .If EF is

 represented by 5x-55and E'F' is represented by 2x+5,find the value of x. Polygon WXYZ is congruent to polygon

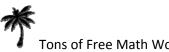
 W'X'Y'Z' .If the value of angle W' is 3x+30 and the value of angle W is 2x+60,find angle W.

Identify True or False dealing with Geometric Congruent



If QS=SR and PQ=PR then <QPS will be congruent to <RPS.

8. If PQ=PR and QS=SR, PQ will be equal to PS.



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Topic : Geometric Constructions- Congruence - Worksheet 3

Triangle JKL is congruent to triangle J'K'L' .If KL is

 represented by 4x-35 and K'L' is represented by 2x-25, find the value of x. Polygon ABCD is congruent to polygon A'B'C'D' .If the

 value of angle A' is 4x+40 and the value of angle A is 5x+35, find angle A.

Triangle ABC is congruent to triangle LMN with $AB \approx LM$.

3. If AB = 3x-38, and LM = 2x+5, find the value of x.

Triangle PQR is congruent to triangle P'Q'R'. If angle R is represented by 5x+4

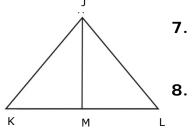
4. and angle R' is represented by 3x+8, find the measure of angle R.

Triangle LMN is congruent to triangle L'M'N' .If MN is

 represented by 4x-50 and M'N' is represented by x+4, find the value of x. Polygon JKLM is congruent to polygon J'K'L'M' .If the

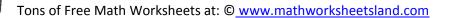
 value of angle J' is 4x+25 and the value of angle J is 2x+45, find angle J.

Identify True or False dealing with Geometric Congruent



If KM=ML and JK=JL then <KJM will not be congruent to <LJM .

8. If JK=JL and KM =ML, JK will not be equal to JM.



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Topic : Geometric Constructions- Congruence - Worksheet 4

Triangle PQR is congruent to triangle P'Q'R' .If QR is

 represented by 2x-36 and Q'R' is represented by x-24, find the value of x. Polygon UVWX is congruent to polygon U'V'W'X' .If the value of

2. angle U' is 3x+35 and the value of angle U is 4x+30, find angle U.

Triangle PQR is congruent to triangle JKL with $PQ \approx JK$.

3. If PQ = 2x-42, and JK = x+6, find the value of x.

Triangle RST is congruent to triangle R'S'T'. If angle R is represented by 4x+6

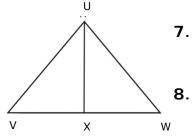
4. and angle R' is represented by 3x+10,find the measure of angle R.

Triangle XYZ is congruent to triangle X'Y'Z' .If YZ is

 represented by 3x-56 and Y'Z' is represented by x+10,find the value of x. Polygon MNOP is congruent to polygon

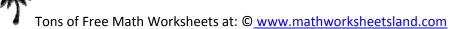
6. $\begin{array}{l} \mathsf{M'N'O'P'} & . \text{If the value of} \\ \text{angle M' is } 5x+20 \text{ and the} \\ \text{value of angle M is} \\ 3x+40, \text{find angle M.} \end{array}$

Identify True or False dealing with Geometric Congruent



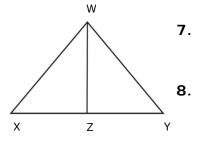
If VX=XW and UV=UW then <VUX will not be congruent to <WUX.

8. If UV=UW and VX =XM, UV will be equal to UX.



Name:		Date		
Topic : Geometric Constructions- Congruence - Worksheet 5				
1.	Triangle UVW is congruent to triangle U'V'W' .If VW is represented by 3x-34 and V'W' is represented by 2x-28,find the value of x.	2.	Polygon PQRS is congruent to polygon P'Q'R'S' .If the value of angle P' is $4x+25$ and the value of angle P is 3x+40, find angle P.	
3.	Triangle STU is congruent to triangle DEF with ST \approx DE. If ST = 4x-46, and DE = $3x+8$, find the value of x.	4.	Triangle DEF is congruent to triangle D'E'F'. If angle D is represented by $3x+8$ and angle D' is represented by x+12,find the measure of angle D.	
5.	Triangle KLM is congruent to triangle K'L'M' .If LM is represented by $4x-58$ and L'M' is represented by $2x+12$,find the value of x.	6.	Polygon QRST is congruent to polygon Q'R'S'T' .If the value of angle Q' is $4x+22$ and the value of angle Q is 3x+38,find angle Q.	

Identify True or False dealing with Geometric Congruent



If XZ=ZY and WX=WY then <XWZ will not be congruent to <YWZ.

8. If WX=WY and XZ=ZY, WX will not be equal to WZ.

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