Math 1   Name_____
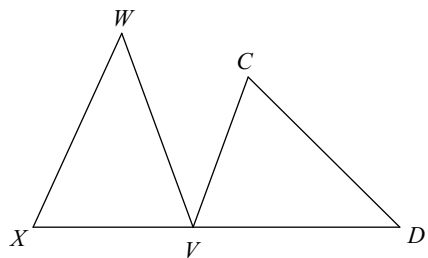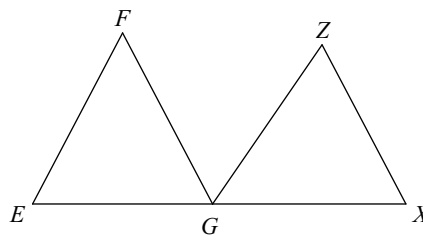
Unit 8.2 Apply Congruence and Triangles EXAMPLE

Complete each congruence statement by naming the corresponding angle or side.

1) $\triangle XWV \cong \triangle CDV$
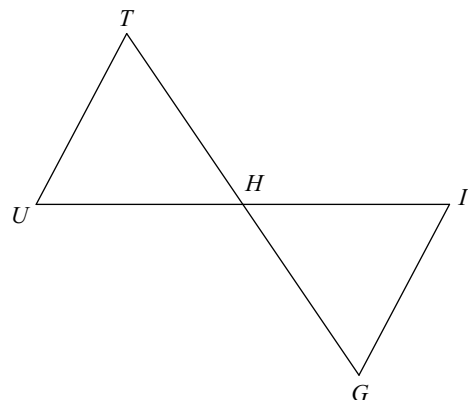

$\overline{WV} \cong ?$

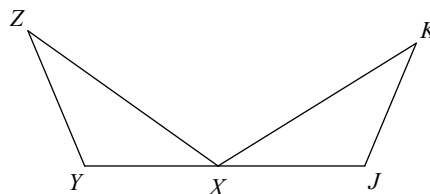2) $\triangle EFG \cong \triangle XGZ$

$\angle F \cong ?$

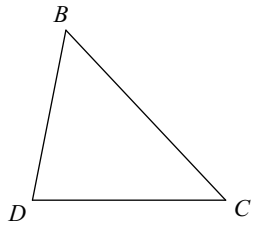3) $\triangle HIG \cong \triangle HTU$

$\angle GHI \cong ?$

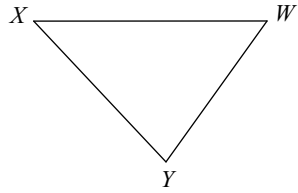4) $\triangle YZX \cong \triangle JXK$
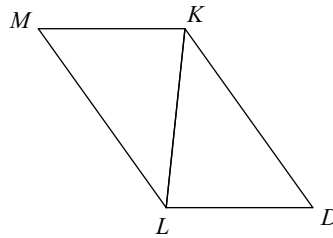

$\overline{ZX} \cong ?$

5) $\triangle BCD \cong \triangle WXY$
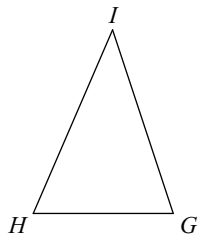

$\overline{DB} \cong ?$

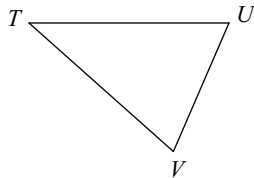6) $\triangle KLM \cong \triangle LKD$

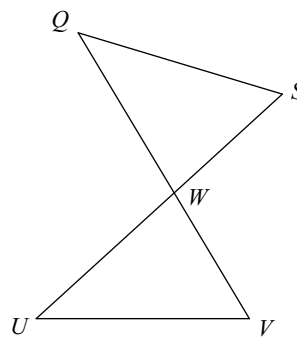$\overline{LM} \cong ?$

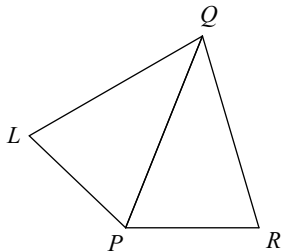7) $\triangle IGH \cong \triangle TVU$

$\angle H \cong ?$

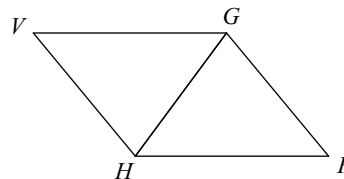8) $\triangle WVU \cong \triangle WSQ$

$\angle U \cong ?$

Mark the angles and sides of each pair of triangles to indicate that they are congruent.
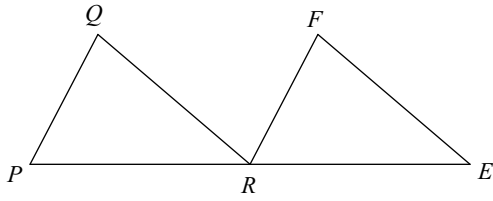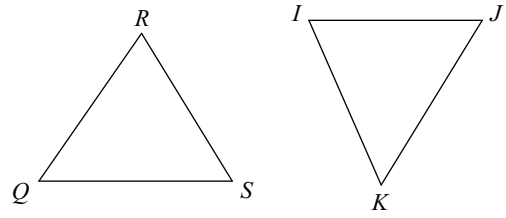
9) $\triangle PQR \cong \triangle PQL$

10) $\triangle HGF \cong \triangle GHV$

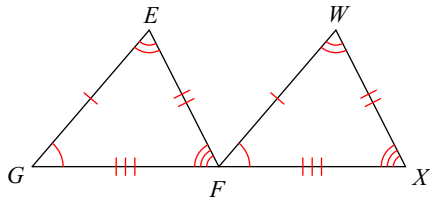11) $\triangle PQR \cong \triangle RFE$

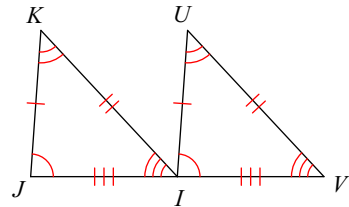12) $\triangle QRS \cong \triangle KIJ$

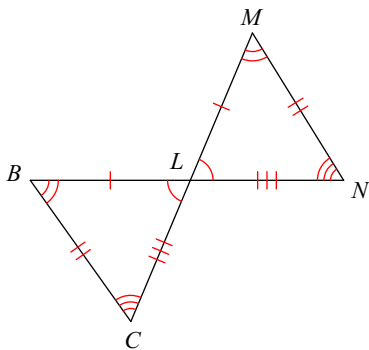**Write a statement that indicates that the triangles in each pair are congruent.**
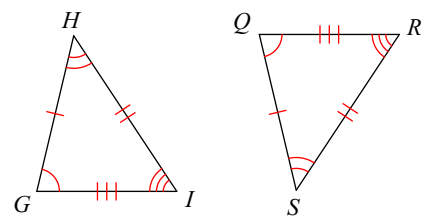
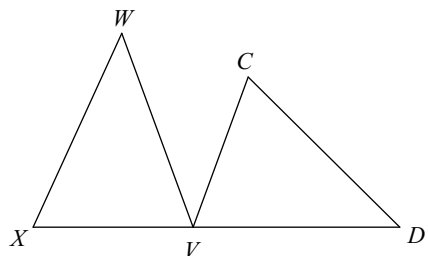13)

14)

15)

16)

Name_____

Unit 8.2 Apply Congruence and Triangles EXAMPLE

Complete each congruence statement by naming the corresponding angle or side.
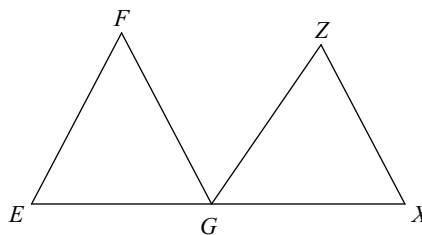
1) $\triangle XWV \cong \triangle CDV$

$\overline{WV} \cong ?$
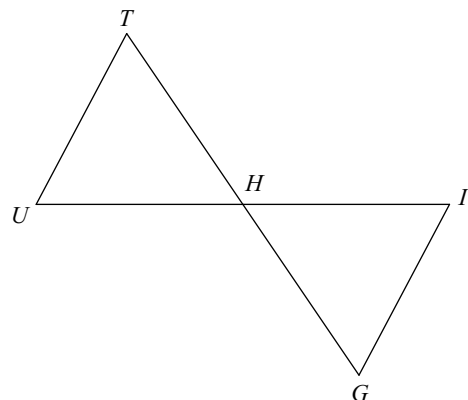
$\overline{DV}$

2) $\triangle EFG \cong \triangle XGZ$
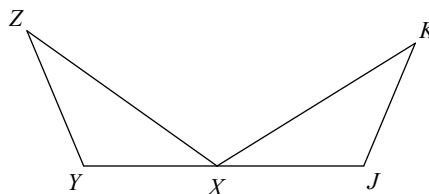

$\angle F \cong ?$

$\angle XGZ$

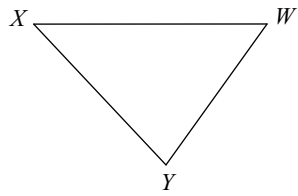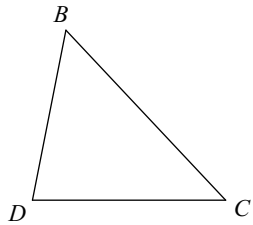3) $\triangle HIG \cong \triangle HTU$

$\angle GHI \cong ?$

$\angle UHT$

4) $\triangle YZX \cong \triangle JXK$
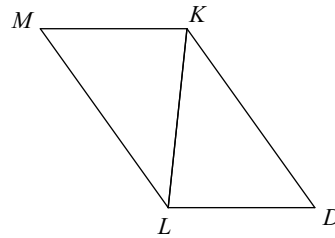

$\overline{ZX} \cong ?$

$\overline{XK}$

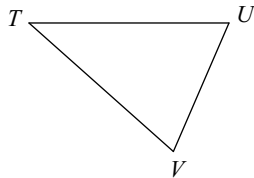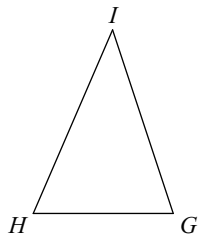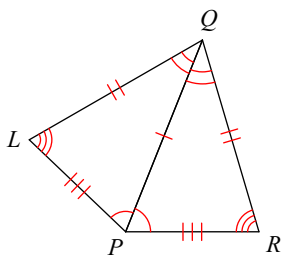5) △BCD ≅ △WXY

$\overline{DB} \cong ?$

   $\overline{YW}$

6) △KLM ≅ △LKD

$\overline{LM} \cong ?$

   $\overline{KD}$

7) △IGH ≅ △TVU

∠H ≅ ?

   ∠U

8) △WVU ≅ △WSQ
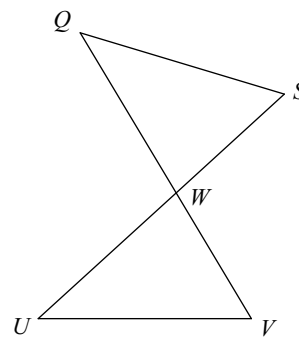
∠U ≅ ?

   ∠Q

Mark the angles and sides of each pair of triangles to indicate that they are congruent.

9) △PQR ≅ △PQL

10) △HGF ≅ △GHV
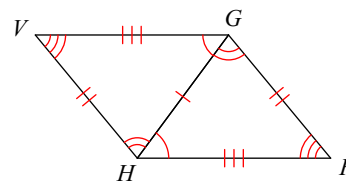
11) $\triangle PQR \cong \triangle RFE$
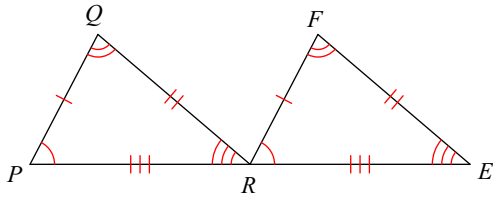
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Write a statement that indicates that the triangles in each pair are congruent.
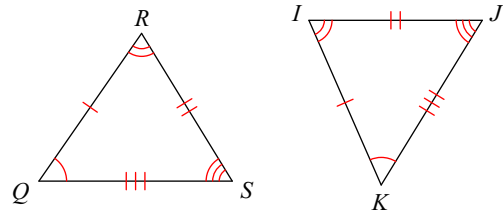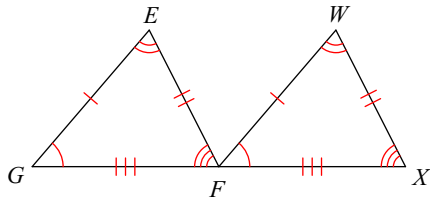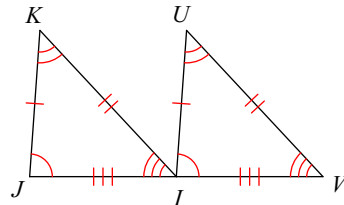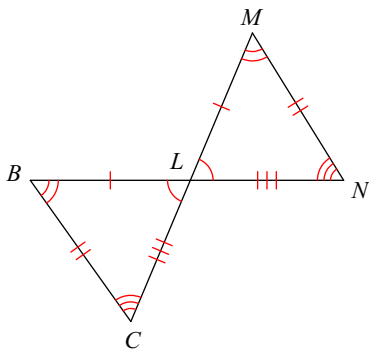
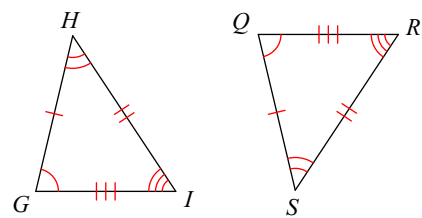13)

$\triangle GEF \cong \triangle FWX$

14)

$\triangle JKI \cong \triangle IUV$

15)

$\triangle LMN \cong \triangle LBC$

16)

$\triangle GHI \cong \triangle QSR$