

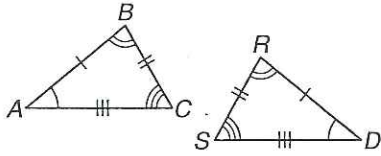
4-3

Practice

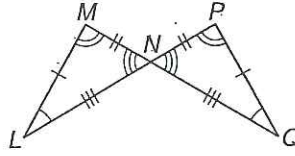
Congruent Triangles

Identify the congruent triangles in each figure.

1.



2.



Name the congruent angles and sides for each pair of congruent triangles.

3. $\triangle GKP \cong \triangle LMN$

1. If $\triangle RST \cong \triangle UWV$, complete each pair of congruent parts.

$\angle R \cong$ _____

_____ $\cong \angle W$

$\angle T \cong$ _____

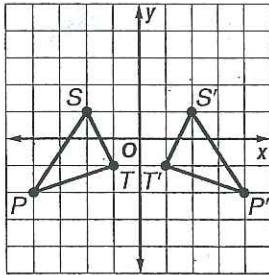
$\overline{RT} \cong$ _____

_____ $\cong \overline{UW}$

_____ $\cong \overline{WV}$

Verify that each of the following transformations preserves congruence, and name the congruence transformation.

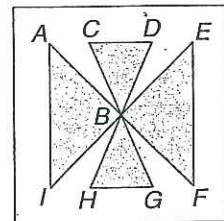
5. $\triangle PST \cong \triangle P'S'T'$



QUILTING For Exercises 7 and 8, refer to the quilt design.

7. Indicate the triangles that appear to be congruent.

8. Name the congruent angles and congruent sides of a pair of congruent triangles.



NAME _____

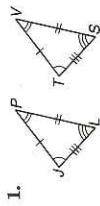
DATE _____

PERIOD _____

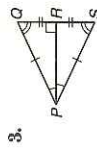
4-3 Skills Practice

Congruent Triangles

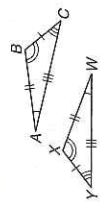
Identify the congruent triangles in each figure.



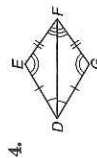
$\triangle JKL \cong \triangle TUS$



$\triangle PQR \cong \triangle PSR$



$\triangle ABC \cong \triangle WXY$



$\triangle DEF \cong \triangle DGF$

Name the congruent angles and sides for each pair of congruent triangles.

5. $\triangle ABC \cong \triangle FGH$

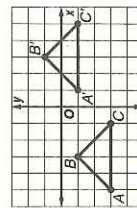
$\angle A \cong \angle F, \angle B \cong \angle G, \angle C \cong \angle H; \overline{AB} \cong \overline{FG}, \overline{BC} \cong \overline{GH}, \overline{AC} \cong \overline{FH}$

6. $\triangle PQR \cong \triangle STU$

$\angle P \cong \angle S, \angle Q \cong \angle T, \angle R \cong \angle U; \overline{PQ} \cong \overline{ST}, \overline{QR} \cong \overline{TU}, \overline{PR} \cong \overline{SU}$

Verify that each of the following transformations preserves congruence, and name the congruence transformation.

7. $\triangle ABC \cong \triangle A'B'C'$



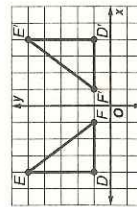
$AB = 2\sqrt{2}, A'B' = 2\sqrt{2},$

$BC = 2\sqrt{2}, B'C' = 2\sqrt{2},$

$AC = 4, A'C' = 4, \angle A \cong \angle A',$

$\angle B \cong \angle B', \angle C \cong \angle C';$ slide

8. $\triangle DEF \cong \triangle D'E'F'$



$DE = 4, D'E' = 4, EF = 5,$

$E'F' = 5, DF = 3, D'F' = 3,$

$\angle D \cong \angle D', \angle E \cong \angle E',$

$\angle F \cong \angle F';$ flip

NAME _____

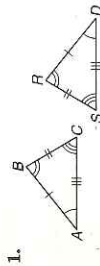
DATE _____

PERIOD _____

4-3 Practice (Average)

Congruent Triangles

Identify the congruent triangles in each figure.



$\triangle ABC \cong \triangle SDR$



$\triangle LMN \cong \triangle QPN$

Name the congruent angles and sides for each pair of congruent triangles.

3. $\triangle GKP \cong \triangle LMN$

$\angle G \cong \angle L, \angle K \cong \angle M, \angle P \cong \angle N; \overline{GK} \cong \overline{LM}, \overline{KP} \cong \overline{MN}, \overline{GP} \cong \overline{LN}$

1. If $\triangle RST \cong \triangle UVW$, complete each pair of congruent parts.

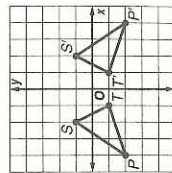
$\angle R \cong \angle U$

$\angle T \cong \angle V$

$\overline{RT} \cong \overline{UV}$

$\overline{ST} \cong \overline{WV}$

5. $\triangle PST \cong \triangle P'S'T'$



$PS = \sqrt{13}, P'S' = \sqrt{13},$

$ST = \sqrt{5}, S'T' = \sqrt{5}, PT = \sqrt{10},$

$P'T' = \sqrt{10}, \angle P \cong \angle P',$

$\angle S \cong \angle S', \angle T \cong \angle T';$ flip

7. Indicate the triangles that appear to be congruent.

$\triangle ABI \cong \triangle EBF, \triangle CBD \cong \triangle HBG$

8. Name the congruent angles and congruent sides of a pair of congruent triangles.

Sample answer: $\angle A \cong \angle E, \angle ABI \cong \angle EBF, \angle I \cong \angle F;$
 $\overline{AB} \cong \overline{EB}, \overline{BI} \cong \overline{BF}, \overline{AI} \cong \overline{EF}$

