

Practice Worksheet for Lesson 4-1

Name:

Mailbox #:

Suppose you know that $\triangle BIG \cong \triangle CAT$.

1) Name three pairs of congruent sides.

2) Name three pairs of congruent angles.

3) Give another congruence statement for these two triangles two triangles (fill in the blanks below).

$\triangle \underline{\hspace{1cm}} \cong \triangle \underline{\hspace{1cm}}$

4) If $\triangle DEF \cong \triangle RST$, $m\angle D = 100^\circ$, and $m\angle F = 40^\circ$, name four congruent angles.

5) Suppose $\triangle LXR \cong \triangle FNE$. List six congruences that compare corresponding parts of the congruent triangles.

The two triangles shown are congruent. Complete the following using the given diagram.

6) $\triangle PAL \cong \triangle \underline{\hspace{1cm}}$

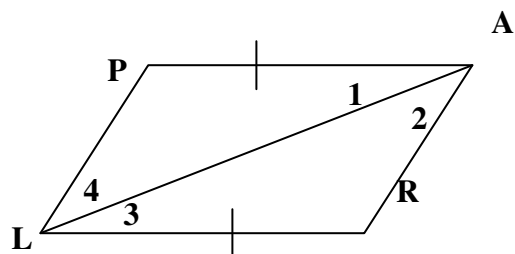
7) $\overline{PA} \cong \underline{\hspace{1cm}}$

8) If $\angle 1 \cong \underline{\hspace{1cm}}$, then $\overline{PA} \parallel \underline{\hspace{1cm}}$

because $\underline{\hspace{1cm}}$

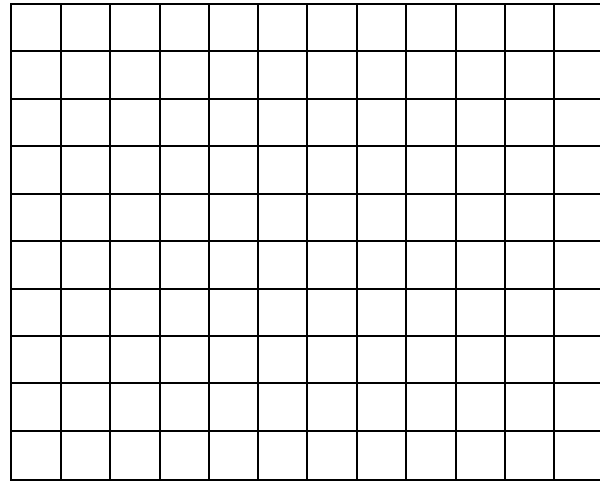
9) If $\angle 2 \cong \underline{\hspace{1cm}}$ because $\underline{\hspace{1cm}}$, then $\underline{\hspace{1cm}} \parallel \underline{\hspace{1cm}}$

$\underline{\hspace{1cm}}$ because $\underline{\hspace{1cm}}$



Plot the given points on the graph paper below. Draw $\triangle FAT$. Locate point C so that $\triangle FAT \cong \triangle CAT$.

10) $F(1, 2)$ $A(4, 7)$ $T(4, 2)$



Plot the given points on graph paper. Draw $\triangle ABC$ and \overline{DE} . Find two locations of point F such that $\triangle ABC \cong \triangle DEF$.

11) $A(-1, 0)$ $B(-5, 4)$ $C(-6, 1)$ $D(1, 0)$ $E(5, 4)$

