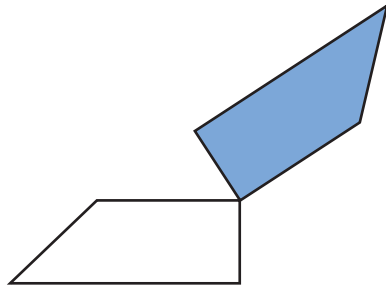


Identifying Congruent Figures

NCTM Standards 3, 6, 7, 8, 9, 10

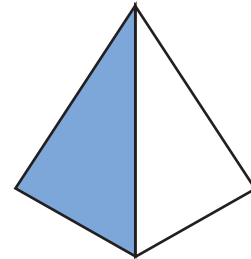
How should each white figure be moved so it fits on the blue figure? Use *slide*, *flip*, or *turn*.

1

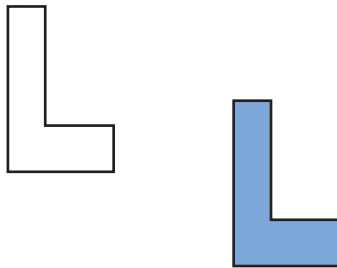


turn

2



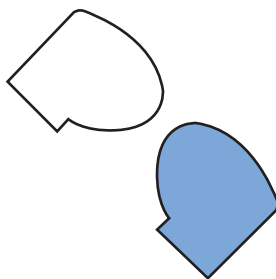
3



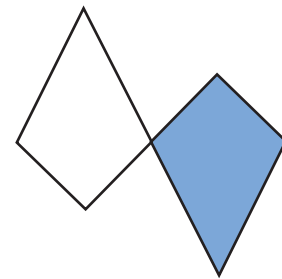
4



5



6





7 Choose one of the problems above. Describe how you decided if it was a slide, flip, or turn.

Draw and connect the points on each grid. Remember, the first number tells how far to move right, and the second number tells how far to move up.

8 Place point A at $(2,4)$.

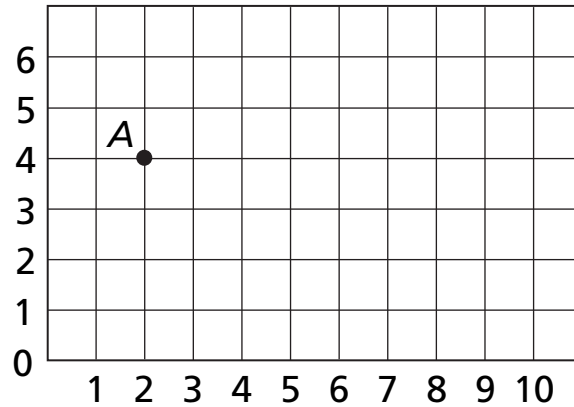
Place point B at $(8,2)$.

Place point C at $(4,1)$.

Place point D at $(1,2)$.

Draw \overline{AB} by connecting A and B .

Draw \overline{BC} , \overline{CD} , and \overline{DA} .



9 Add 2 to both numbers in each pair above.

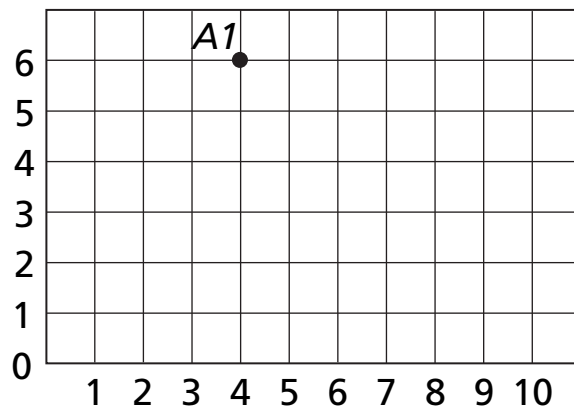
$A1$ is at $(4,6)$.

$B1$ is at $(\underline{\quad}, \underline{\quad})$.

$C1$ is at $(\underline{\quad}, \underline{\quad})$.

$D1$ is at $(\underline{\quad}, \underline{\quad})$.

Draw $\overline{A1B1}$, $\overline{B1C1}$, $\overline{C1D1}$, and $\overline{D1A1}$.



10 Are the two figures congruent? _____



11 Challenge Compare these two patterns. Describe how they are alike, and how they are different. You can use the words *flip*, *turn*, and *slide* in your answer.

