

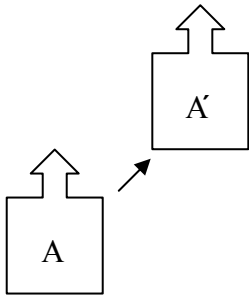
# Reteaching Page

## 7.10 Transformations

**Transformations** move a figure without changing the size or shape.

### Translation

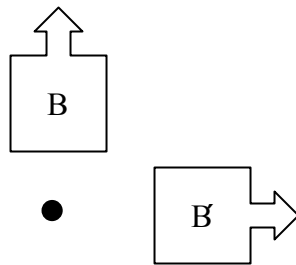
Move (**slide**) a figure.



If the translation of A ( $A'$ ) is (5, 4) Then each corresponding point in  $A'$  is +5 on the  $x$  and +4 on the  $y$ .

### Rotation

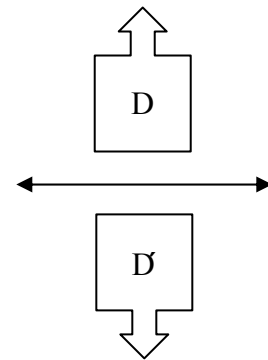
Move (**turn**) a figure around a point.



This is a rotation of  $90^\circ$  clockwise. To determine the amount of rotation, draw a line to the point of rotation, then draw another line from the point of rotation to the corresponding point in the figure B.

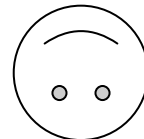
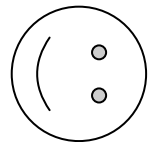
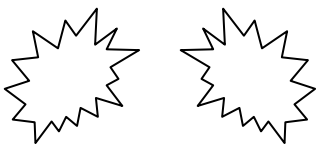
### Reflections

**Flip** or mirror a figure across a **line of reflection**.



This is a reflection of D. To draw a reflection, choose the point or points closest to the line of reflection and draw them as a reflection, then turn your paper and redraw the original figure.

Tell whether each of the following is a translation, rotation or reflection.



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## Reteaching Page

### 7.10 – Transformations

Line of Reflection	the line a figure is "flipped" over	Similar	figures have the same shape - may not have the same size
Line of Symmetry	a line that divides a figure in such a way as to create 2 congruent or matching figures.	Tessellation	a repeating arrangement of one or more shapes that completely covers a plane - no gaps or over laps
Reflection	flip a figure (mirror image)	Transformation	move or change the position of a figure
Rotation	turn a figure around a point.	Translation	slide a figure