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| Learning Card # \_\_\_\_\_\_ | Name: | |
| Facts!  Translations are \_\_\_\_\_\_\_\_\_\_\_\_ transformations.  Meaning, the \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_ are not  affected, only the \_\_\_\_\_\_\_\_\_\_\_\_\_\_. | | Notation: |
| Example:  The quadrilateral ABCD is translated up 5 and left 3.  A(-1, 3) B(2, -1) C(5, 4) D(-5, -7).  State A’B’C’D’ | | A (2, 5)  B (-3, 6)  C (5, -2)  Graph the  image if it was translated  (x + 2, y + 3) |
| Translations | | |

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| Learning Card # \_\_\_\_\_\_ | Name: | |
| Facts!  Reflections are the \_\_\_\_\_\_\_\_\_\_ distance from the  “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_”. | | X-axis Y-axis  Reflect A(-2, 3) B(4,1) C(0, -5) |
| Reflect A(-2, 3) B(4,1) C(0, -5) | | Horizontal and Vertical Lines    Y =  X = |
| Reflections | | |
| Learning Card # \_\_\_\_\_\_ | Name: | |
| Facts!  Rotating 180 is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ no matter which direction.  Rotating 90 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the same as  270 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Rotating 90 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the same as  270 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | RULES!  180 90 CW 90CCW |
| Rotate A(-2, 3) B(4,1) C(0, -5)  180 270 CW | | Graph and rotate 90 CW  A(3, 6) B(1, -5) C(-2, 0) |
| Rotations | | |