

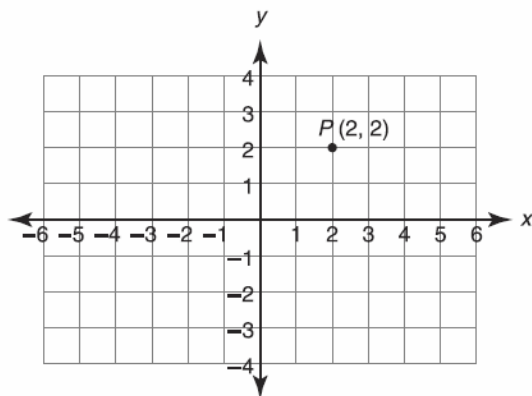
Geometry – Unit 2 Task

What's Your Order?

G.CO.A.5, G.CO.B.6

Name: _____ !

Date: _____ Pd: _____



Jerry's teacher told him that the order in which two transformations are performed could affect the final image. If Jerry reflected point $P(2, 2)$ over the y -axis and then translated the image two units to the right, the final image of P would be $P''(0, 2)$.

- 1) Would the final image have been any different if the point had first been translated two units right and then reflected over the y -axis? Support your answer by giving coordinates of the final image for this case.

Jerry's teacher wrote the following three transformations on the board:

- Reflect over the x -axis
- Reflect over the y -axis
- Translate 2 units up

Use the transformations from the list above and the point in the diagram to answer the following.

- 2) Choose two of the transformations from the list above for which the final image would be affected by the order in which the transformations are performed. Support your answer by giving the coordinates of both of the final images, one for each order in which the transformations were performed.
- 3) Choose two of the transformations from the list above for which the final image would NOT be affected by the order in which the transformations are performed. Support your answer by giving the coordinates of both of the final images, one for each order in which the transformations were performed.