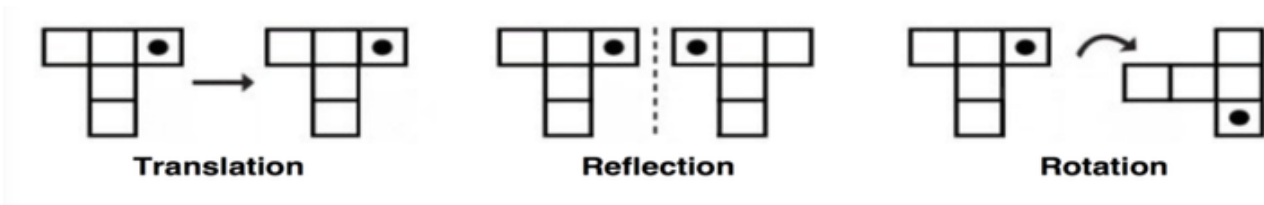


# Introduction to Unit 1

Illustrative Mathematics

Write your full name below:



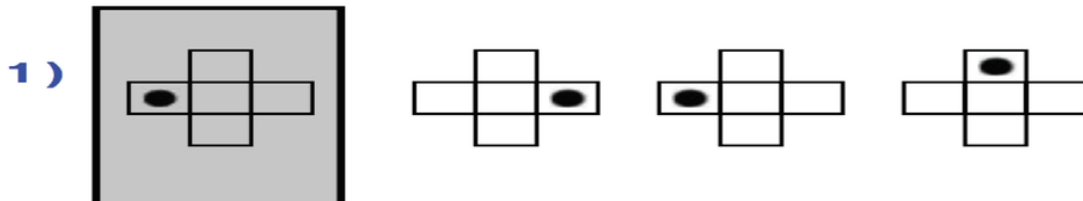
Based on the picture above, describe what happens in a TRANSLATION in your own words.

Based on the picture above, describe what happens in a REFLECTION in your own words.

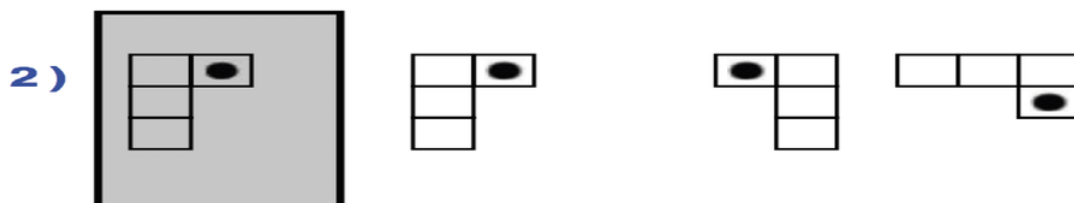
Based on the picture above, describe what happens in a ROTATION in your own words.

## Part One:

Write the type of transformation shown in order. (These will be either a TRANSLATION, a REFLECTION, or a ROTATION - or a combination of these, but not in any specific order). Question One is modeled for you.

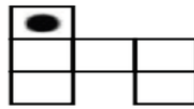
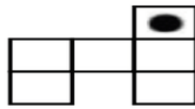
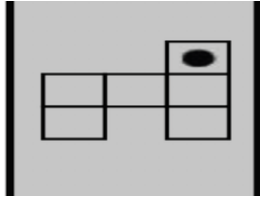


**IN ORDER:** The first figure is a ROTATION (180 degrees) or a REFLECTION, the second figure is a TRANSLATION or a ROTATION (360 degrees) and the third figure can only be a ROTATION (either 90 degrees clockwise or 270 degrees counter-clockwise).



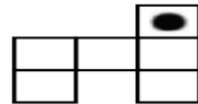
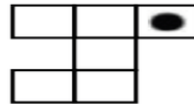
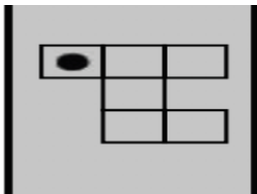
Write the type of transformation(s) shown in order (based on the grey figure):

3)



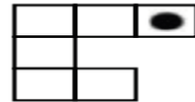
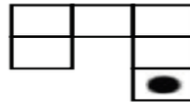
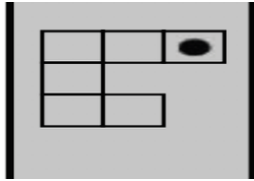
Write the type of transformation(s) shown in order (based on the grey figure):

4)



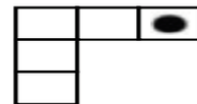
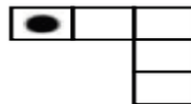
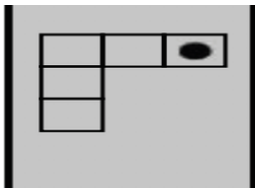
Write the type of transformation(s) shown in order (based on the grey figure):

5 )



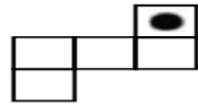
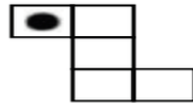
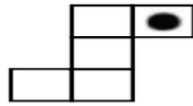
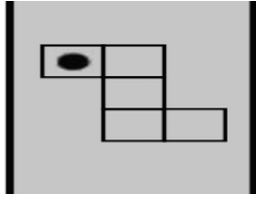
Write the type of transformation(s) shown in order (based on the grey figure):

6 )



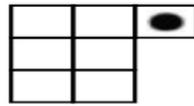
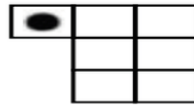
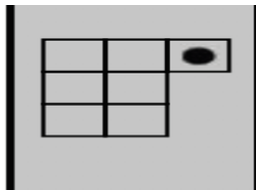
Write the type of transformation(s) shown in order (based on the grey figure):

7)



Write the type of transformation(s) shown in order (based on the grey figure):

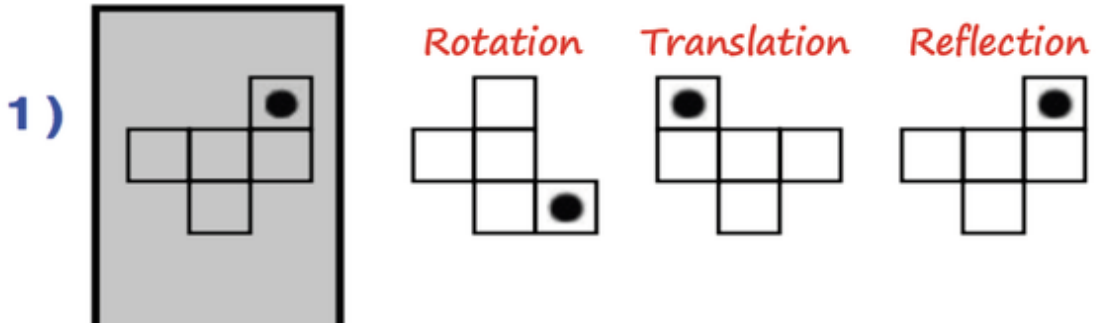
8)



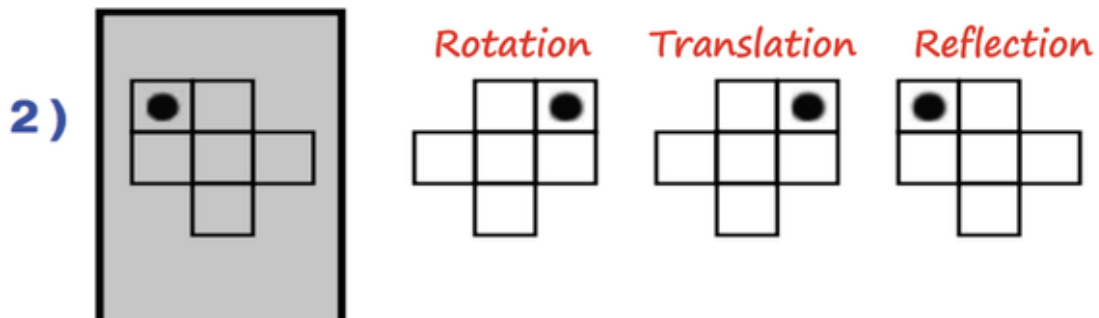
Write the type of transformation(s) shown in order (based on the grey figure):

## Part Two:

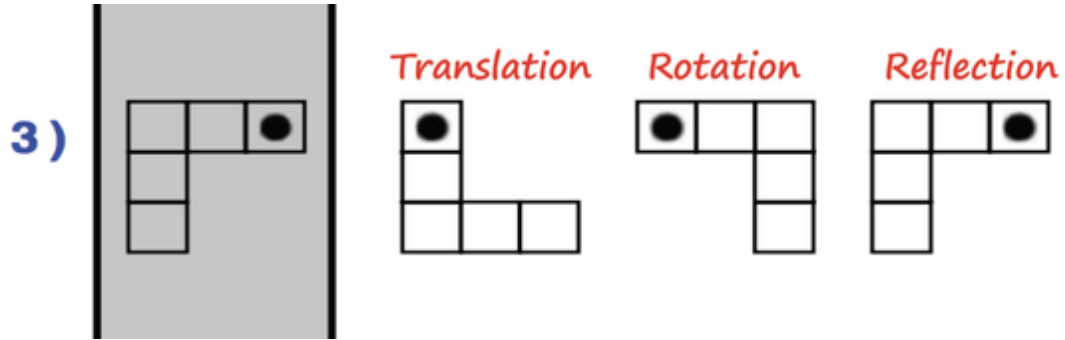
Look at the figure in grey box. Determine if each new labeled figure below is true or false based on the word written in RED. Write a description for each figure. If it is FALSE, think about what it should be. Question One is modeled for you.



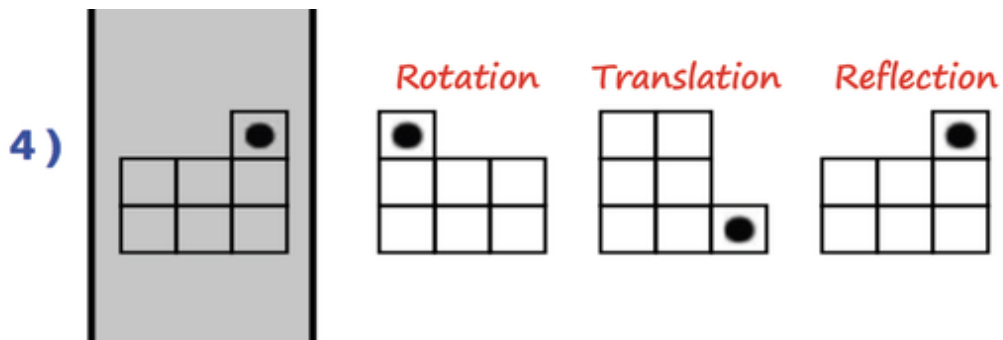
**IN ORDER: Rotation is TRUE. Translation is FALSE. Reflection is FALSE. The second figure marked Translation is actually a Reflection. The third figure marked Reflection is actually a translation.**



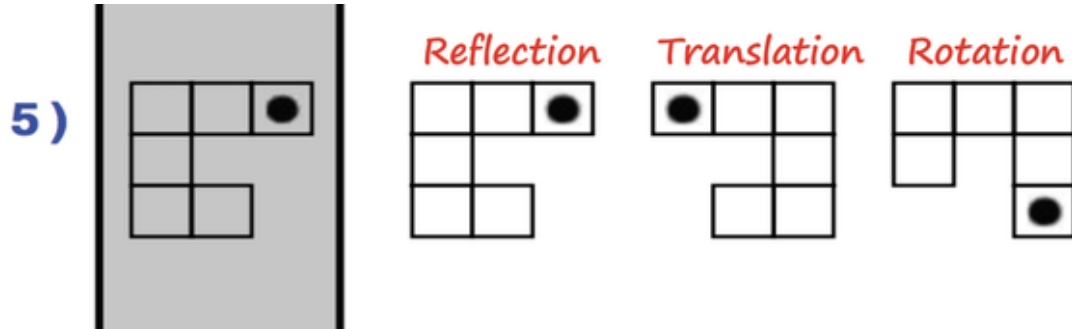
**Determine if each new labeled figure below is true or false based on the word written in RED.**



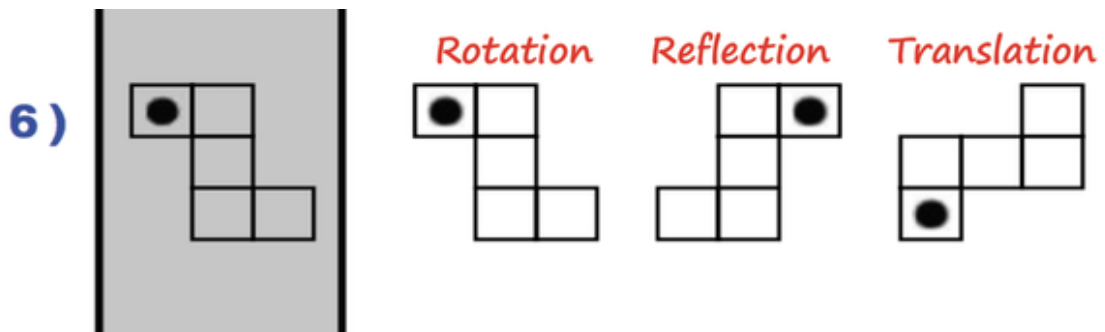
Determine if each new labeled figure below is true or false based on the word written in RED.



Determine if each new labeled figure below is true or false based on the word written in RED.

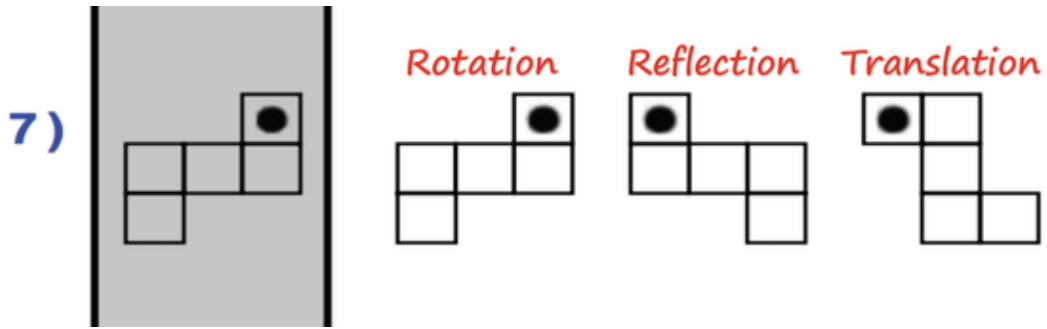


Determine if each new labeled figure below is true or false based on the word written in RED.

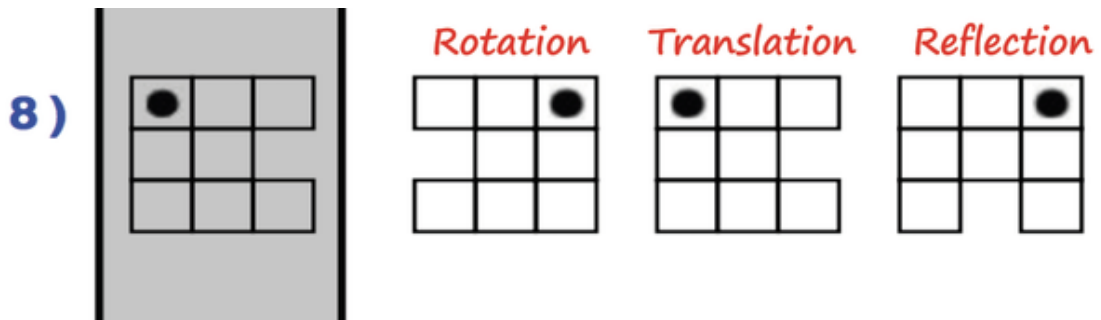


Determine if each new labeled figure below is true or false based on the word written in RED.





Determine if each new labeled figure below is true or false based on the word written in RED.



Determine if each new labeled figure below is true or false based on the word written in RED.

**END OF ASSIGNMENT**