

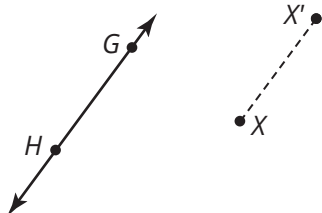
# Enhanced Mid-Topic Assessment

Name \_\_\_\_\_ Date \_\_\_\_\_

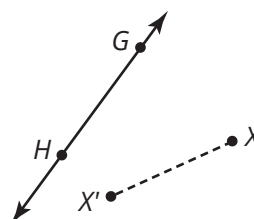
## Part A: Multiple-Choice Questions

1. Which diagram shows the translation  $T_{GH}(X) = X'$ ?

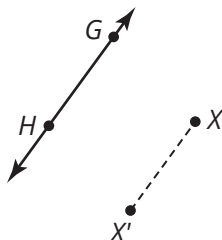
a.



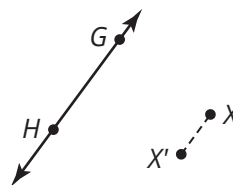
b.



c.

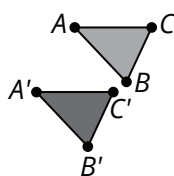


d.

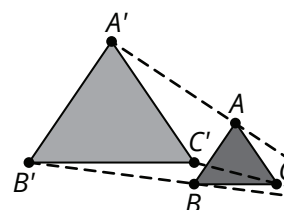


2. Which diagram shows an isometry?

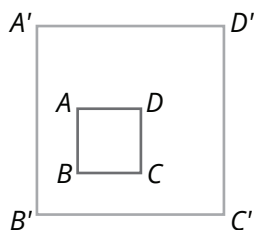
a.



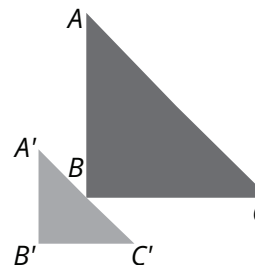
b.



c.



d.

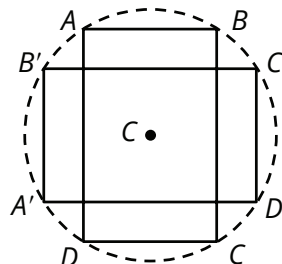


3. Which is the best description of congruent line segments?

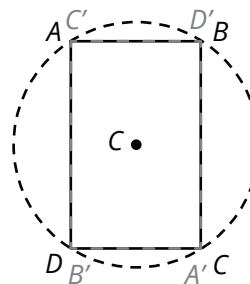
- a. Line segments that are parallel
- b. Perpendicular line segments
- c. Line segments that have the same length
- d. Line segments that share a vertex

4. Which diagram shows a rotation angle of  $90^\circ$  counterclockwise?

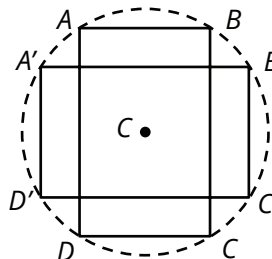
a.



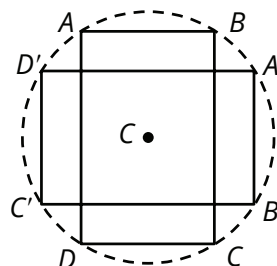
b.



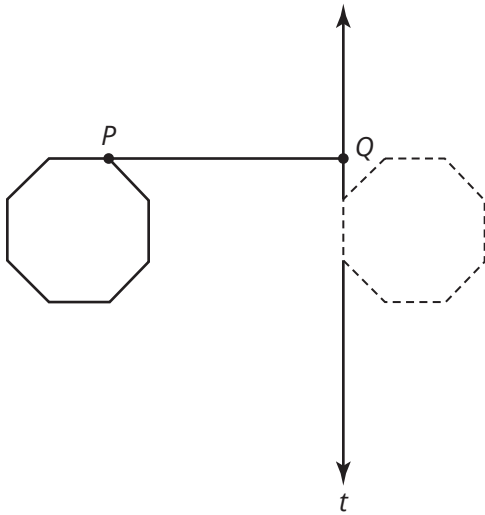
c.



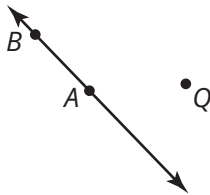
d.



5. Describe the sequence of transformations that was used to transform the pre-image to the image. The image is shown with dashed lines.

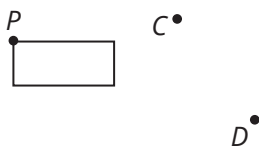


6. Draw the translation  $T_{AB}(Q) = Q'$ .



7. Complete the transformation shown.

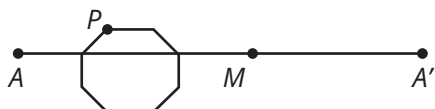
$$T_{CD}(\text{Rectangle}) = \text{Rectangle}'$$



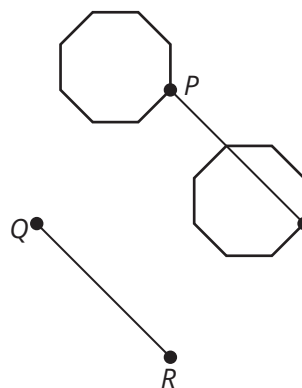
## Part B: Open-Response Questions

8. Complete the translation, given the function.

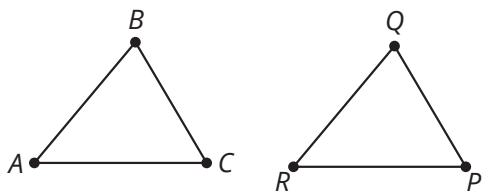
$$T_{MA'}(\text{Octagon}) = \text{Octagon}'$$



9. Write a function to describe the translation shown.



10.  $\triangle ABC$  was translated to create  $\triangle PQR$  as shown.



Write congruency statements for the corresponding sides and angles of  $\triangle ABC$  and the image  $\triangle PQR$ .