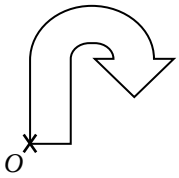
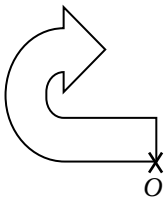
TB(1A) Ch. 7 Symmetry and Transformation
Multiple Choice Questions

1. [13-14 Standardized Test 2 Q2]

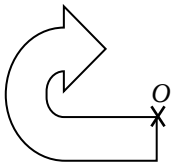
Which of the following images will be obtained when the figure is rotated anti-clockwise about *O* through 90° ?



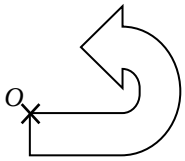
A.



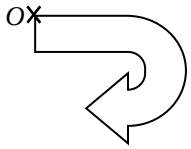
B.



C.

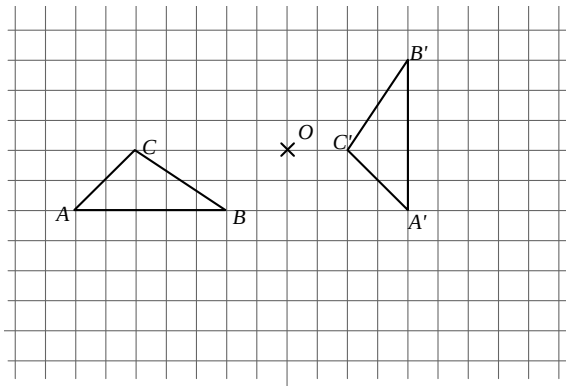


D.



2. [13-14 Standardized Test 2 Q7]

Which of the followings correctly describes the way of transforming ΔABC to $\Delta A'B'C'$?



A. Rotate clockwise about *O* through 90°.

B. Rotate anti-clockwise about *O* through 90°.

C. Move 2 units to the right and 2 units downwards, then rotate clockwise about *O* through 90°.

D. Move 5 units to the right and 2 units downwards, then rotate anti-clockwise about *O* through 90°.

3. [14-15 Standardized Test Q1]

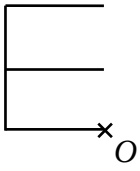
Which of the following Chinese character has reflectional symmetry?

A. 東 **B.** 南

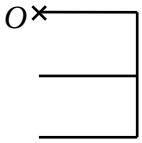
C. 西 **D.** 北

4. [14-15 Standardized Test Q2]

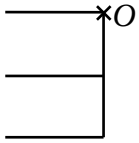
If the figure below is rotated about O through 180^o, which of the following is its image?



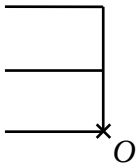
A.



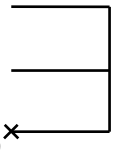
B.



C.

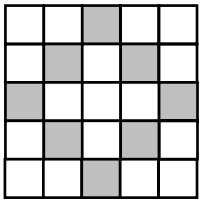


D.



5. [14-15 Final Exam Q5]

In the figure, a square is divided into 25 small identical squares and 8 of them are shaded. Find the order of rotational symmetry of the whole figure.



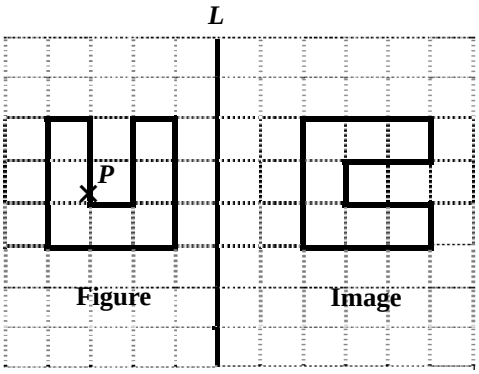
A. 2 **B.** 4

C. 6 **D.** 8

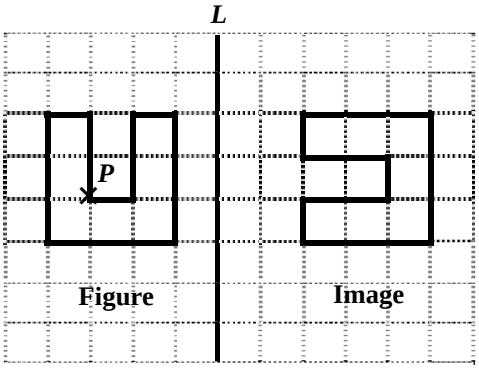
6. [14-15 Final Exam Q17]

Which of the following figures shows the transformation "Rotate anti-clockwise through 90° about point *P*, and then reflects along *L*" correctly?

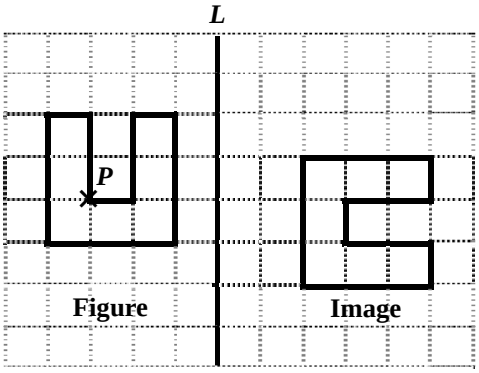
A.



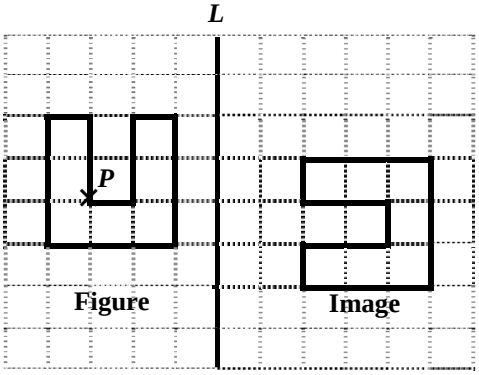
B.



C.



D.



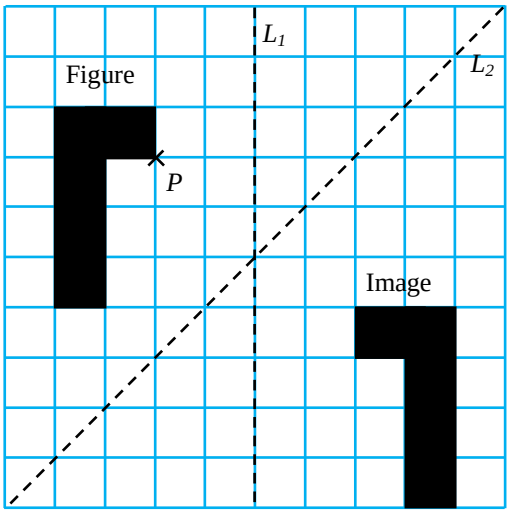
7. [15-16 S. Test, #4]

How many axes of symmetry does the following figure have? What is its order of rotational symmetry?

	Axes of symmetry	Order of rotational symmetry
A.	2	2
B.	4	2
C.	2	4
D.	4	4

8. [15-16 S. Test, #8]

Which of the following descriptions are true about transforming the figure to the image shown below?



I. Reflect the figure along L_2, and then rotate anti-clockwise about the image of P through 90°.

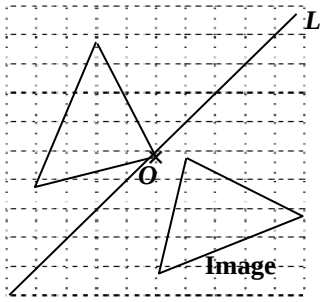
II. Rotate the figure anti-clockwise about the point P through 90°, and then reflect along L_2.

III. Reflect the figure along L_1, and then translate the image downwards for 4 units.

A. I and II only.
B. I and III only.
C. II and III only.
D. I, II and III.

9. [15-16 Final Exam, #18]

The figure shows a triangle and its image. Which of the following statements correctly describes the transformation?



A. The figure is reflected about line *L* and then translated 1 unit downwards.
B. The figure is translated 1 unit to the left and then rotated through 180° about *O*.
C. The figure is translated 1 unit upwards and then reflected about line *L*.
D. The figure is rotated through 180° about *O* and then translated 1 unit to the right.

10. [16-17 S. Test, #2]

Which of the following figures has / have reflectional symmetry?

I.

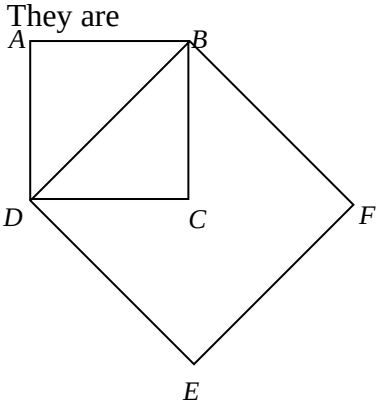
II.

III.

A. II only
B. I and II only
C. I and III only
D. II and III only

11. [16-17 S. Test, #8]

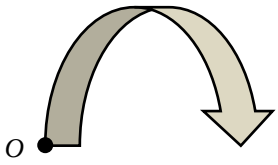
In the figure, *BFED* is the image of *ABCD* after these two transformations. They are



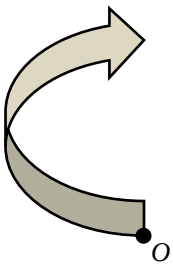
A. rotation and enlargement.
B. reflection and rotation.
C. translation and reflection.
D. enlargement and translation.

12. [16-17 Final Exam, #2]

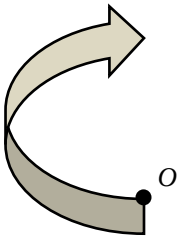
Find the image of the following figure below after rotating anti-clockwise about *O* through 270°.



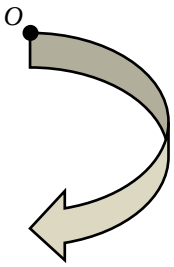
A.



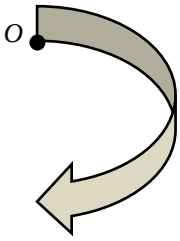
B.



C.

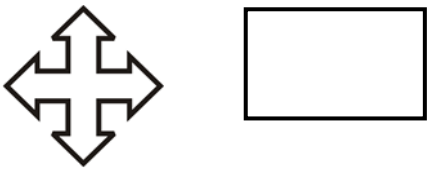


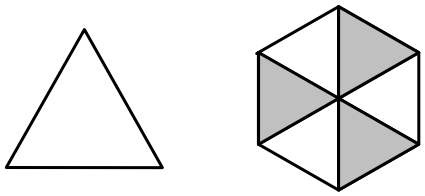
D.

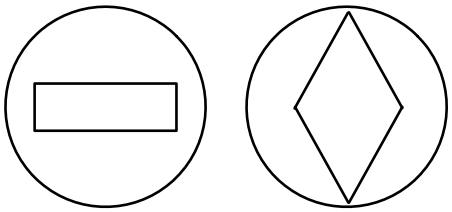


13. [17-18 Final Exam, #6]

Which of the following pairs of figures have the same number of axis/axes of symmetry?

I. 

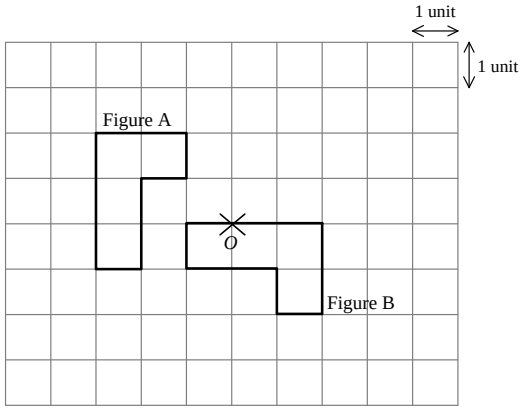
II. 

III. 

A. III only
B. I and II only
C. I and III only
D. II and III only

14. [17-18 Final Exam, #16]

In the figure, which transformation is involved to transform Figure A to Figure B?



A. Figure A is rotated through 90° clockwise about *O*.
B. Figure A is rotated through 90° clockwise about *O* and then translated 2 units downwards.
C. Figure A is rotated through 180° anticlockwise about *O* and then translated 2 units to the left.
D. Figure A is rotated through 270° anticlockwise about *O* and then translated 3 units downwards.

~ End ~