socrative
A showbie PRODUCT

Name _____
Date _____

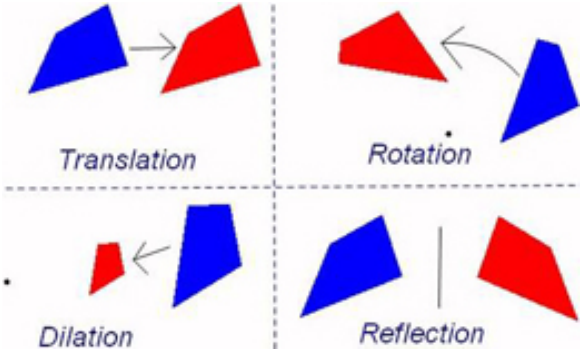
# Geometry of Transformations

Score _____

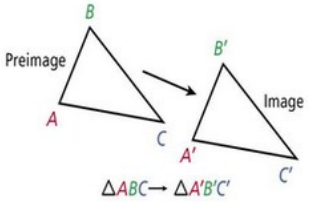
**1.** An image from a transformation cannot be congruent to the original figure.

(T) True

(F) False




**2.** Arrow notation (→) is used to describe a transformation, and primes (′) are used to label the image.




A translation arrow describes the translation of a figure on a coordinate grid.

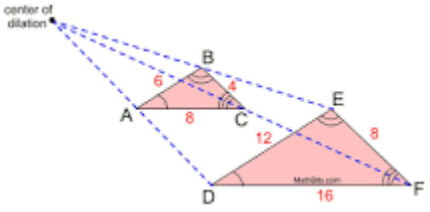
(T) True

(F) False

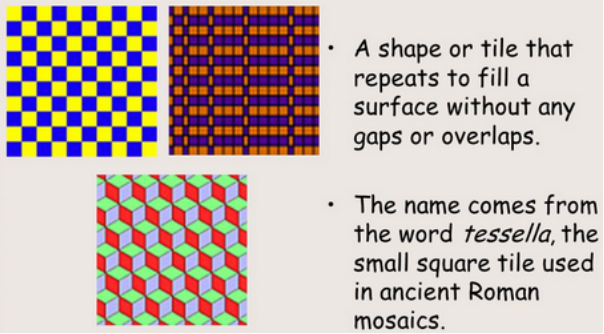
**3.** A DIALATION is a transformation that produces an image that is the same shape of the original, but is a different size.

(T) True

(F) False



**4.**

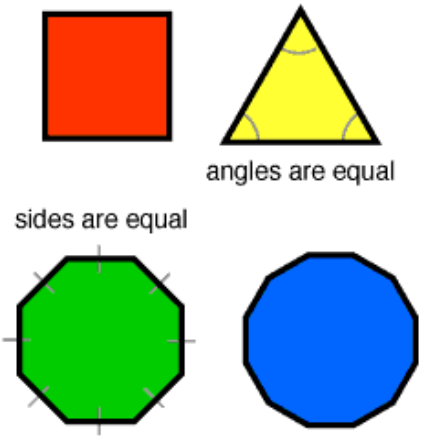



Another name for a mosaic is a tessellation.

(T) True

(F) False

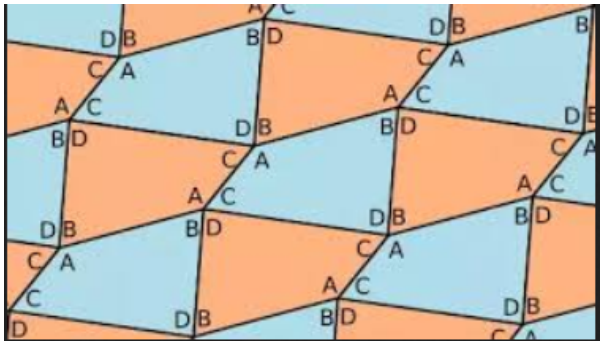
**5.** There are four types of regular figures that can tile a plane.




(T) True

(F) False

**6.**



Any quadrilateral can be used to tile a plane.

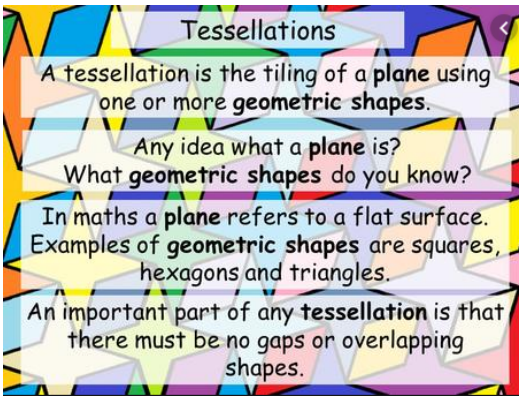
(T) True

(F) False

**7.** Only an *equilateral* triangle can tile a plane.

(T) True

(F) False




**8.** These capital letters have identical images after a reflection along a horizontal mirror line - B, C, D, E, H, I, L, K, O, R, X

(T) True

(F) False

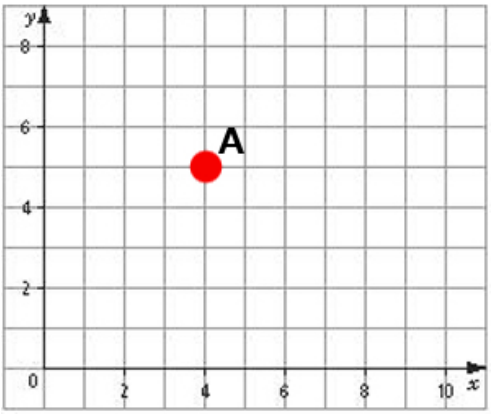
**9.** Point A(4,5) is translated 2 units left and 3 units up. What are the new coordinates of point A?

(A) (2,8)

(B) (6,8)

(C) (2,2)

(D) (6,2)



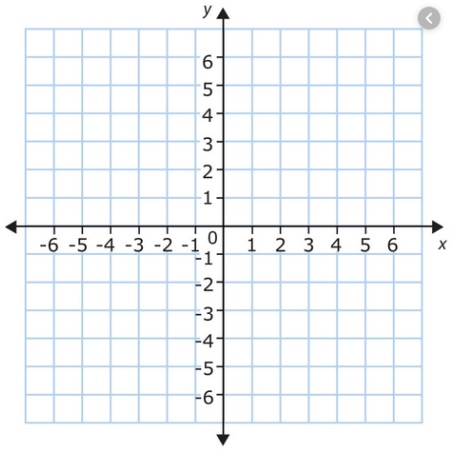

**10.** Point C(0,3) is translated 3 units right and 1 unit down. What are the new coordinates of point C?

(A) (3,4)

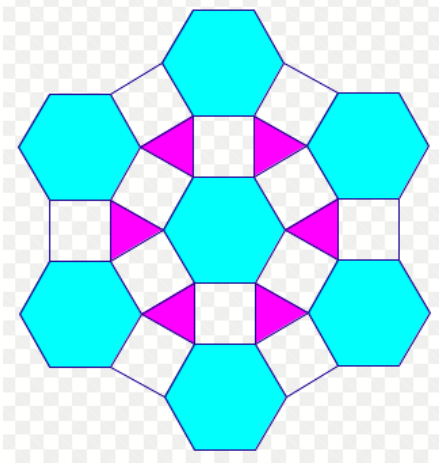
(B) (2,2)

(C) (2,3)

(D) (3,2)



**11.** Which of the following shapes can be used to tile the plane?



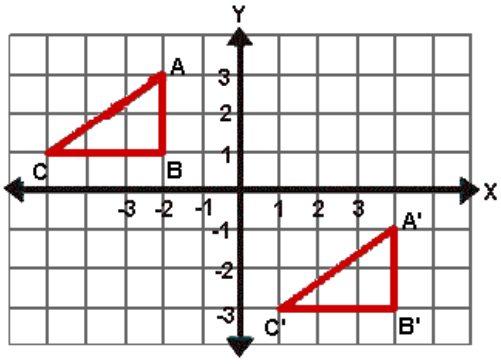
(A) hexagon

(B) square

(C) triangle

(D) all of the above

**12.** The type of transformation that moves figure ABC onto its image figure A'B'C' is a



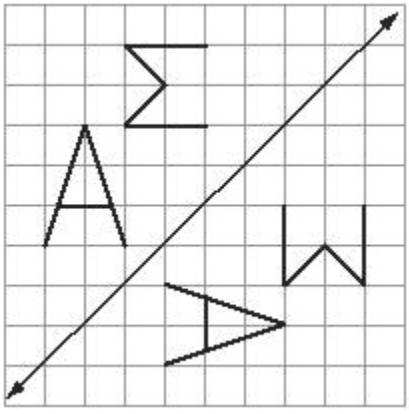

(A) dilation

(B) rotation

(C) reflection

(D) translation

**13.** What transformation is being shown along the mirror line at 45º?



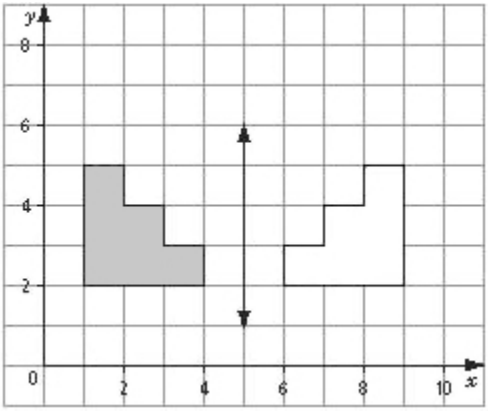
(A) rotation

(B) translation

(C) reflection

(D) none at all

**14.** The following transformation is a



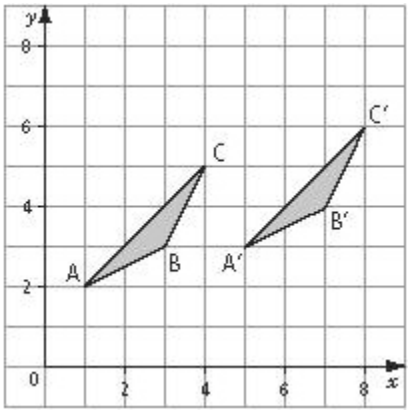

(A) translation

(B) reflection

(C) rotation

(D) It's not a transformation, just the steps to Farmer Brown's house.

**15.** Describe the transformation that moves the figure onto its image.



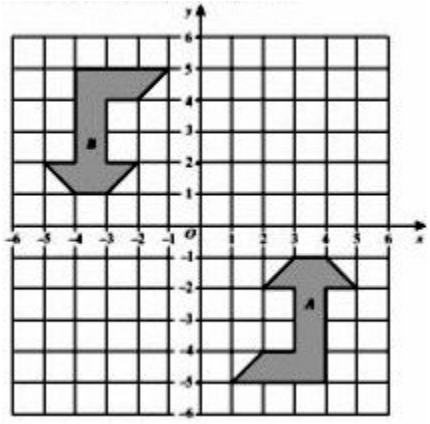

(A) The figure has been translated 2 units right and 2 unit up.

(B) The figure has been translated 1 units right and 4 unit up.

(C) The figure has been translated 3 units right and 1 unit up.

(D) The figure has been translated 4 units right and 1 unit up.

**16.** The figure below is a what type of transformation?



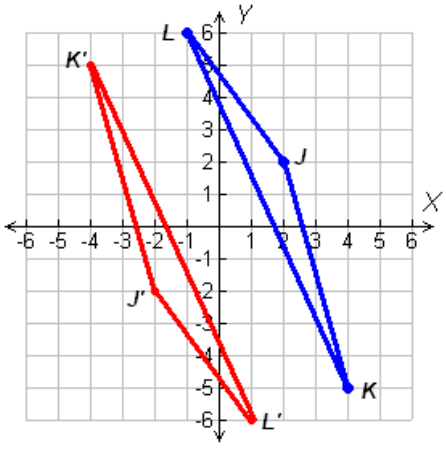
(A) rotation of 90°

(B) rotation of 180°

(C) rotation of 150°

(D) reflection

**17.** The following depicts which geometrical transformation of triangle JKL?



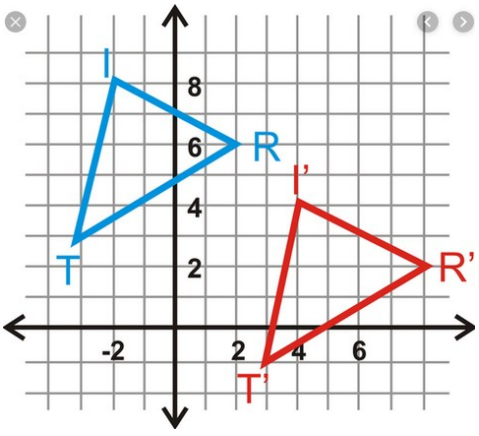

(A) rotation

(B) reflection

(C) translation

(D) dilation

**18.** The transformation that is a SLIDE along a straight line is called:



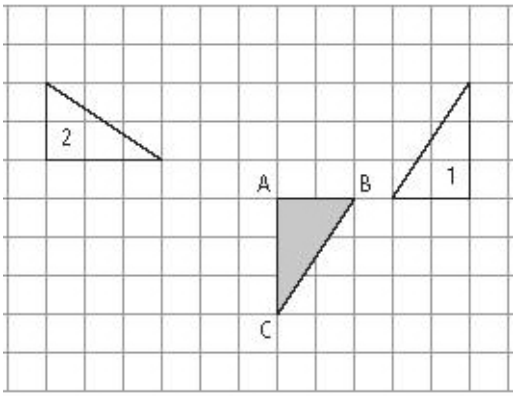

(A) translation

(B) reflection

(C) rotation

(D) image

**19.** What transformation of the shaded triangle ABC is shown?



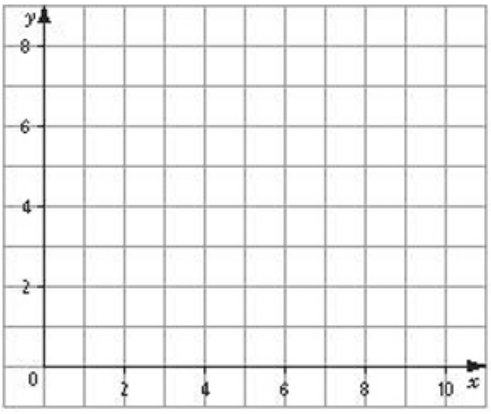

(A) Figure 1 is the image of Triangle ABC after a translation of 3 to the right and 3 up.

(B) Figure 1 is the image of Triangle ABC after a rotation of 270°.

(C) Figure 1 is the image of Triangle ABC after a rotation of 180°.

(D) Figure 1 is the image of Triangle ABC after a rotation of 90°.

**20.** What CAPITAL LETTER of the alphabet can be formed when joining the following points on a coordinate grid? A(3,5), B(5,5), C(7,5), D(5,3), E(5,1)




(A) I

(B) T

(C) D

(D) W