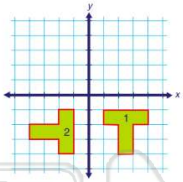
Patterns in geometry

Math

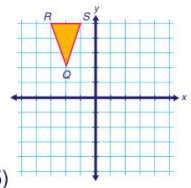
Name_____ Class_____ Date_____

1 Figure **#1** is **rotated** to figure **#2**. What is the angle and direction of the rotation?



A 60° clockwise
B 90° counter-clockwise
C 90° clockwise
D 60° counter-clockwise

2 Triangle *QRS* shown is **rotated 180°** clockwise. What are the coordinates of the new figure?

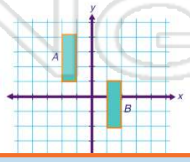


A *Q*'(2, 2), *R*'(3, 5), *S*'(1, 5)
B *Q*'(-2,-2), *R*'(-3, -5), *S*'(-1, -5)
C *Q*'(2, 2), *R*'(5, 3), *S*'(5, 1)
D *Q*'(2, -2), *R*'(3, -5), *S*'(1, -5)

3 For the figure shown, if point *A* is **rotated 60° counter-clockwise** about point *O*, which point would it become?

A *B*

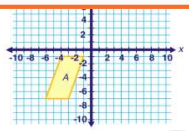
4 Given the figure shown, what verbal description describes the **translation** from figure *A* to figure *B*?



5

7

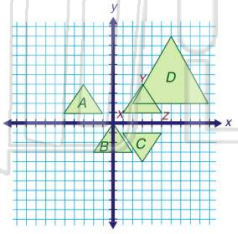
B quadrant II
C quadrant III
D quadrant IV



A true
B false

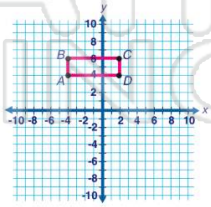
9 Which figure is a **dilation** of triangle *XYZ*?

A *A*
B *B*
C *C*
D *D*



10 Point *B* is at (-6, 4). What would be the coordinates of point *B* under a **dilation** of .5?

A (2, -2)
B (2, 3)
C (-2, 3)
D (8, 12)

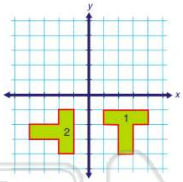


Patterns in geometry

Math

Name_____ Class_____ Date_____

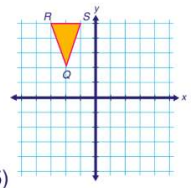
1 Figure **#1** is **rotated** to figure **#2**. What is the angle and direction of the rotation?



A 60° clockwise
B 90° counter-clockwise
C 90° clockwise
D 60° counter-clockwise

C

2 Triangle *QRS* shown is **rotated 180°** clockwise. What are the coordinates of the new figure?



A *Q*'(2, 2), *R*'(3, 5), *S*'(1, 5)
B *Q*'(-2,-2), *R*'(-3, -5), *S*'(-1, -5)
C *Q*'(2, 2), *R*'(5, 3), *S*'(5, 1)
D *Q*'(2, -2), *R*'(3, -5), *S*'(1, -5)

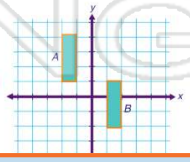
D

3 For the figure shown, if point *A* is **rotated 60° counter-clockwise** about point *O*, which point would it become?

A *B*

C

4 Given the figure shown, what verbal description describes the **translation** from figure *A* to figure *B*?



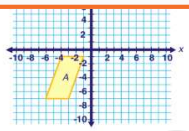
B

5

C

7

B quadrant II
C quadrant III
D quadrant IV

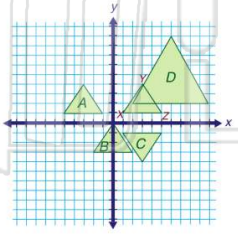


B

A true
B false

9 Which figure is a **dilation** of triangle *XYZ*?

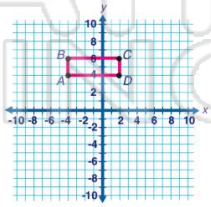
A *A*
B *B*
C *C*
D *D*



D

10 Point *B* is at (-6, 4). What would be the coordinates of point *B* under a **dilation** of .5?

A (2, -2)
B (2, 3)
C (-2, 3)
D (8, 12)



C