

QUIZ

TRANSFORMATION

Mathematics - Mr Arnold

Use the concept of Translation, Reflection, Rotation and Dilatation to solve the following questions.

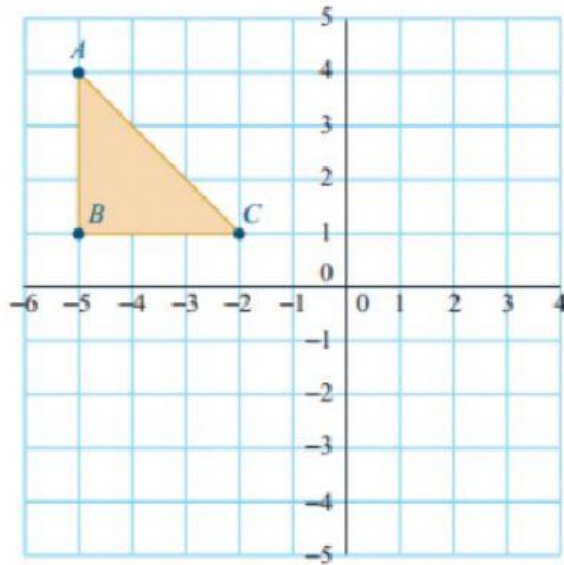
A. MULTIPLE CHOICE

- 1 When we move an object by change the size and the position, we use the concept of
A. Translation
B. Reflection
C. Rotation
D. Dilatation
- 2 Point A(3, 5) is moved 3 units to the right and 6 units down, the coordinate of A' is
A. (6, 11)
B. (6, -1)
C. (0, 11)
D. (0, -1)
- 3 Point P(-2, 6) translated by $T(-2, 5)$ then retranslated by $T(5, -3)$. The coordinate of P after the second translation is...
A. $P''(-5, -4)$
B. $P''(5, 4)$
C. $P''(1, 8)$
D. $P''(-1, 8)$

4 Look at the following picture.

If the triangle reflected by line: $y = x$, the coordinate of point A is....

- A. (5, -4)
- B. (4, 5)
- C. (-5, 4)
- D. (4, -5)



5 Point P(-4, 3) is reflected by x-axes, then translated by T(3, 5), the final image of point P is

- A. P''(-1, 2)
- B. P''(1, -2)
- C. P''(1, 2)
- D. P''(-1, -2)

6 Point P(-3, -2) reflected by line: $y = x$ then rotated by 180 degree, The final image of point P is....

- A. P''(2, -3)
- B. P''(2, 3)
- C. P''(3, 2)
- D. P''(-3, -2)

- 7 Point $M'''(-5, -6)$ is the result of reflection by line: $y = -x$ from point M'' . Point M'' is the result of Translation by $T(3, -1)$ from point M' . If point M' is the dilatation by $D[O, 3]$ from point M , the coordinate of point M is....
- A. $M(3, 1)$
 - B. $M(2, 3)$
 - C. $M(3, 2)$
 - D. $M(1, 2)$

- 8 The image of point $A(x, y)$ after dilatated by $D[O, 3]$ is $P'(6, -9)$. The coordinate of point P is....
- A. $P(-2, 3)$
 - B. $P(-2, -3)$
 - C. $P(2, -3)$
 - D. $P(2, 3)$

- 9 Point $A(1, 7)$ first reflected by y -axes , then dilatated by $D[O, 2]$. The coordinate of A after the second transformation is...
- A. $A''(2, 14)$
 - B. $A''(-2, 14)$
 - C. $A''(2, -14)$
 - D. $A''(-2, -14)$

- 10 Point $B(3, y)$ translated by $T(x, 4)$. The result of the translation is $B'(5, -1)$. The value of $xy = \dots$
- A. 10
 - B. -10
 - C. 20
 - D. -20