Quiz: Transformation & Translation

Section: Transformation & Translation **Sub-section: Transformation & Translation**

Choose the correct answer.

1. Which of the following are transformations?

   (Remember, MA 2.2 G 8/3)

   A. Reflection B. Translation C. Rotation D.All of the above

   Solution: All of the above

   Translation, reflection, and rotation are the transformations.

2. Which of the following is correct about transformation?

   (Remember, MA 2.2 G 8/3)

   A.The original figure is called Image.

   B.The original figure is called Preimage.

   C.The resulting transformation figure is called Preimage.

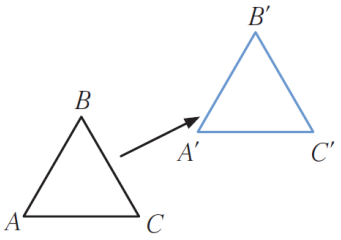
   D.Translation is not one type of transformation.

   Solution: The original figure is called Preimage

   The *original* figure is called **Preimage** and the *resulting transformation* is called **Image.**

3. Which type of transformation maps $\triangle ABC$ to $\triangle A'B'C'$?

   (Understand, MA 2.2 G 8/3)



   A. Reflection B. Translation C. Rotation D.Not here

   Solution: Translation

   Translation (or slide) is a transformation in which all points of the figure move in the same distance and direction.

4. Find the coordinates of the image when point (2,0) is translated along vector <-3,-1>. (Understand, MA 2.2 G 8/3)

   A.(5,1)

   B.(1, -1)

   C.(-1, -1)

   D.(5, -1)

   Solution: $(-1, -1)$

   $(2, 0) \rightarrow (2-3, 0-1)$

   So, (2,0) translated along the vector <-3,-1> is (-1, -1).

5. Find the coordinates of the image when point (10,2) is translated along the vector <10,4>. (Understand, MA 2.2 G 8/3)

   A.(20,6)

   B.(20, -2)

   C.(0, -4)

   D.(0, -2)

   Solution: $(20, 6)$

   $(10, 2) \rightarrow (10+10, 2+4)$

   So, (10, 2) translated along the vector <10,4> is (20, 6).

6. Find the coordinates of the image when point (5,12) is translated 3 units upward. (Understand, MA 2.2 G 8/3)

   A.(5, 9)

   B.(5, 15)

   C.(2, 12)

   D.(2, 15)

   Solution: $(5, 15)$

   $(5, 12) \rightarrow (5, 12+3)$

   So, (5, 12) translated 3 units upward is (5, 15).

7. Find the coordinates of the image when point (4,1) is translated 2 units to the right. (Understand, MA 2.2 G 8/3)

   A.(4, -1)

   B.(4, 3)

   C.(2, 1)

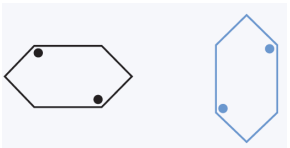
   D.(6, 1)

   Solution: (6,1)

   (4,1) → (4+2, 1)

   So, (4,1) translated 2 units to the right is (6,1).

8. Which of the following transformations is translation? (Understand, MA 2.2 G 8/3)

   A. 

   B. 

   C. 

   D. 

   Solution: 

   Translation (or slide) is a transformation in which all points of the figure move in the same distance and direction.

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