Lesson 2 Assignment

Translations

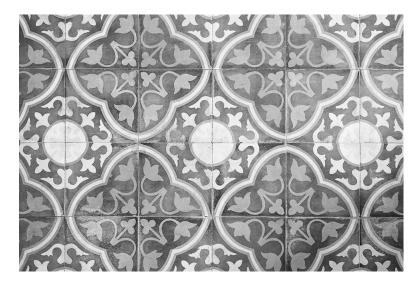
Work slowly and carefully. If you are having difficulty, go back and review the appropriate Lesson.

For full marks, show all calculations, steps, and/or explain your answers.

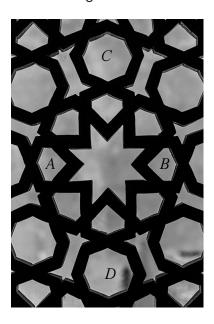
Total: 15 marks.



1. Identify one translation in the diagram below by drawing a box around an image and a box around its translated image.

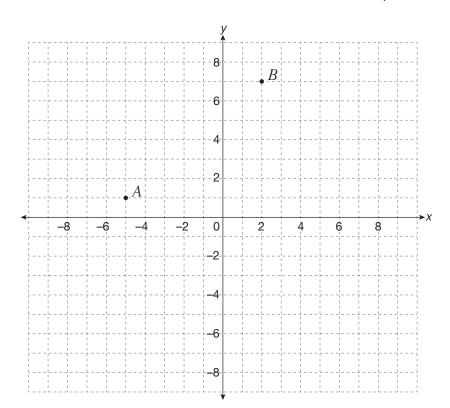


2. Use the diagram below to answer the following questions.

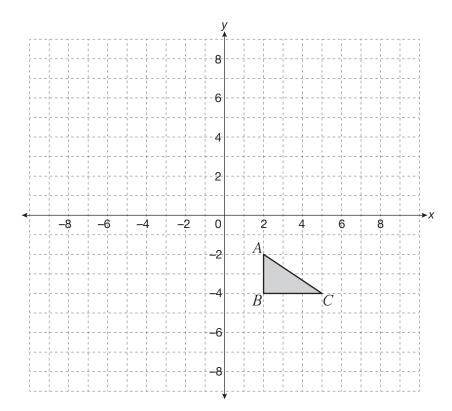


- a. Is it possible to move from shape A to shape B by using a translation?
- b. Is it possible to move from shape C to shape D by using a translation?

- 1
- 3. Describe the translation from point A(-5,1) to point B(2,-7). Hint: State the horizontal and vertical movement of the point.

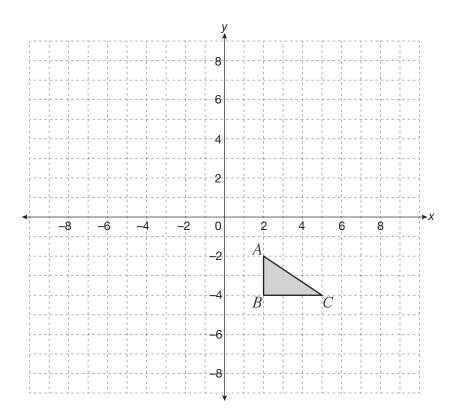


4. Use the graph below to answer the following questions.

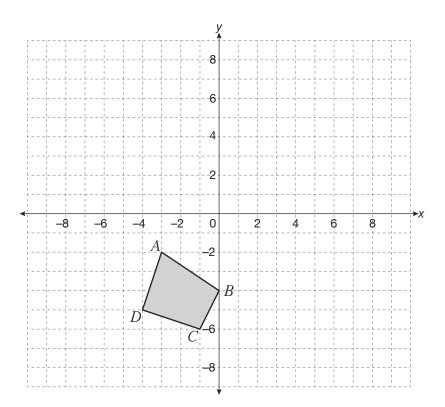


a. State the coordinates of each vertex in the triangle.

- 2
- b. Translate the triangle horizontally 6 units to the left and vertically 3 units up. Label each new vertex using the correct notation.

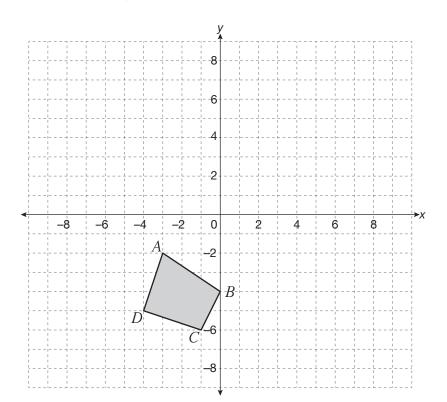


5. Use the graph below to answer the following questions.

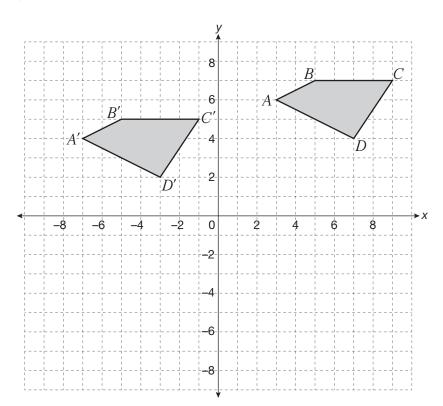


a. State the coordinates of each vertex in the quadrilateral.

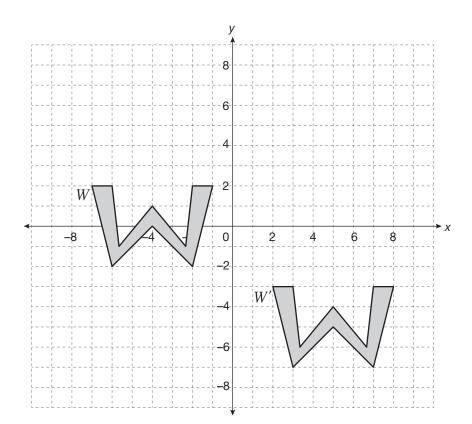
- 2
- b. Translate the polygon horizontally 7 units to the right and vertically 1 unit up. Label each new vertex using the correct notation.



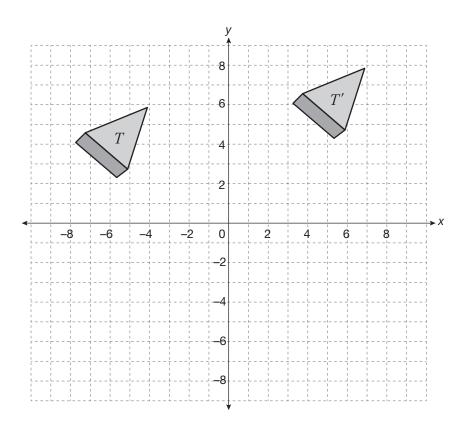
- 1
- 6. State the number of units the polygon has been translated horizontally and vertically and give the direction of each.



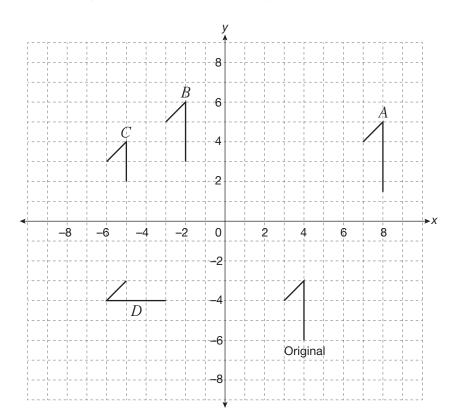
- 1
- 7. State the number of units the shape has been translated horizontally and vertically and give the direction of each.



- 1
- 8. State the number of units the shape has been translated horizontally and vertically and give the direction of each.



1 9. Which image is a translation of the original shape?



1) 10. Which image is a translation of the original pentagon?

