

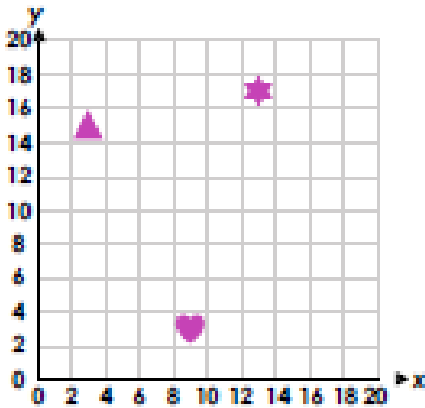
16/7/20 - Maths

Skill: Describing Movement on a Grid - varied fluency & reasoning

*First, complete the PowerPoint document attached.

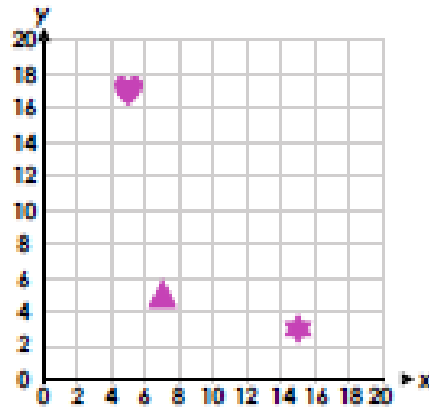
Fluency:

9a. Describe the movement needed for the triangle to go to the star, then to the heart.



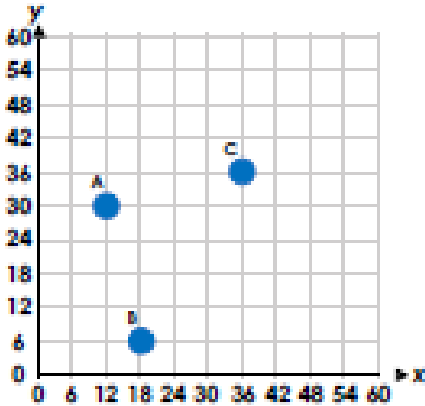
VF

9b. Describe the movement needed for the star to go to the heart, then to the triangle.



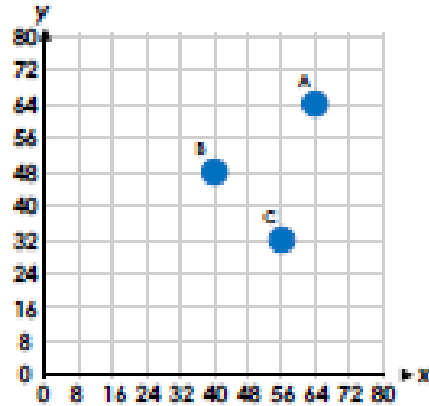
VF

10a. Translate points A, B and C by 24 right and 18 up. What are the new coordinates?



VF

10b. Translate points A, B and C 24 left and 32 down. What are the new coordinates?



VF

11a. Points A (4, 12), B (8, 36) and C (24, 20) were translated 12 right and 8 down on a grid with a scale increase of 4.

What are the new coordinates?



VF

11b. Points A (0, 4), B (20, 8) and C (24, 12) were translated 16 right and 24 up on a grid with a scale increase of 4.

What are the new coordinates?



VF

12a. Chloe plotted points A (16, 4), B (8, 8) and C (12, 16) on a grid with a scale increase of 4. They are translated to (32, 24), (24, 28) and (28, 36).

How are the points translated?



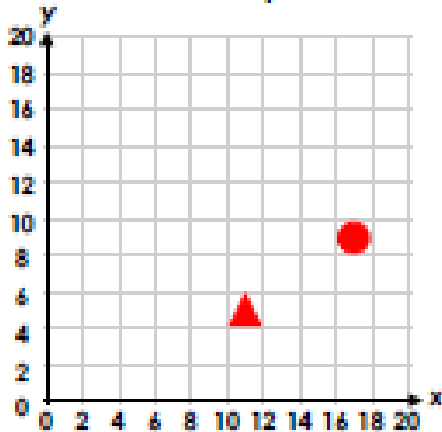
12b. Gasim plotted points A (24, 36), B (30, 42) and C (54, 48) on a grid with a scale increase of 6. They are translated to (6, 24), (12, 30) and (36, 36).

How are the points translated?



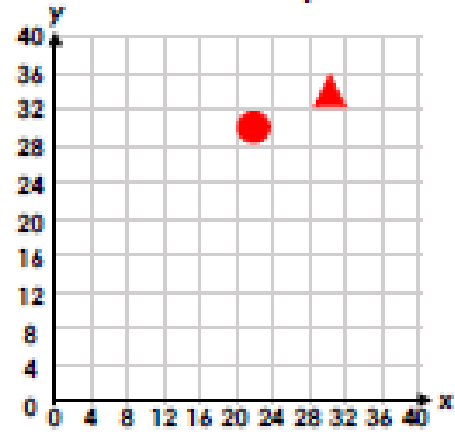
Reasoning

7a. The triangle and circle been translated from $(3, 15)$ and $(9, 19)$. Jim says they have both moved 8 right and 10 down. Is he correct? Explain.



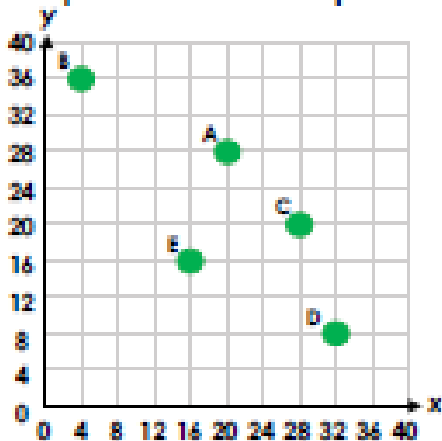
P5

7b. The triangle and circle have been translated from $(18, 18)$ and $(10, 14)$. Tiana says they have both moved 16 right and 16 down. Is she correct? Explain.



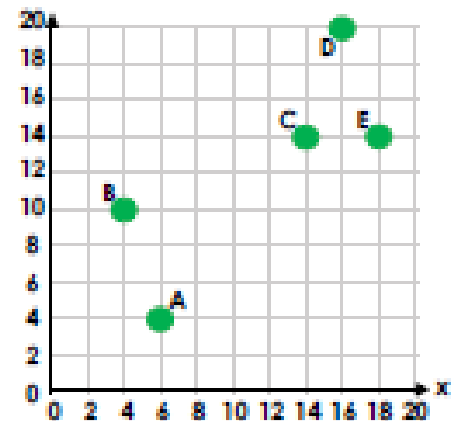
P5

8a. Points A and B have made exactly the same translations. Write the translations made and the coordinates of the start and finish positions of each point.



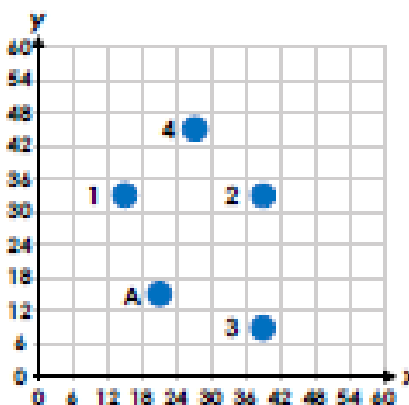
P5

8b. Points A and B have made exactly the same translations. Write the translations made and the coordinates of the start and finish positions of each point.



P5

9a. Point A has been translated four times. Match each numbered point to the correct translation statement.



A. 18 right and 18 up

B. 18 right and 6 down

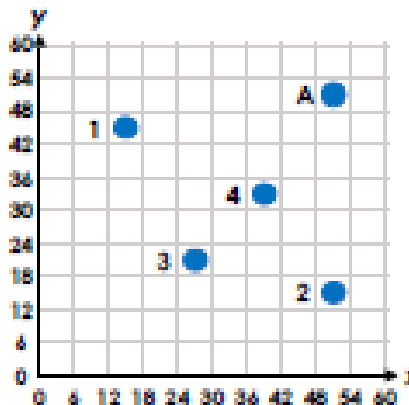
C. 6 left and 18 up

D. 6 right and 30 up



P5

9b. Point A has been translated four times. Match each numbered point to the correct translation statement.



A. 12 left and 18 down

B. 36 left and 6 down

C. 36 down

D. 24 left and 30 down



P5