

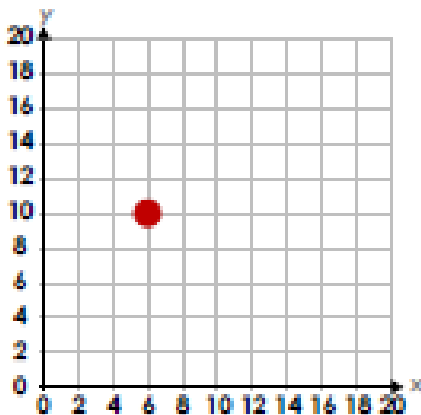
15/7/20 - Maths

Skill: Moving on a Grid (translation) - varied fluency & reasoning

\*First, complete the PowerPoint document attached.

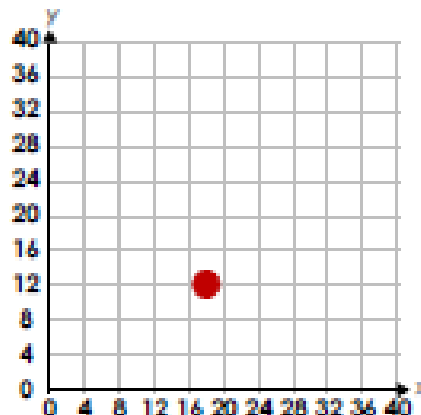
Fluency:

7a. Translate the point 4 left and 6 down.  
Record the new coordinates.



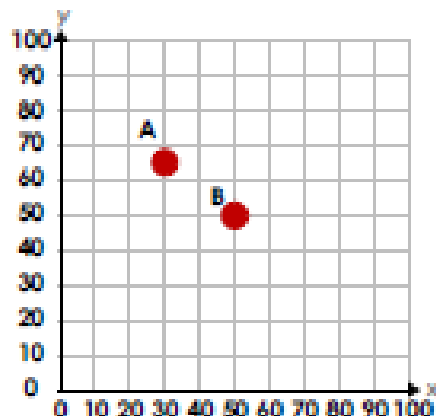
VF

7b. Translate the point 10 right and 12 up.  
Record the new coordinates.



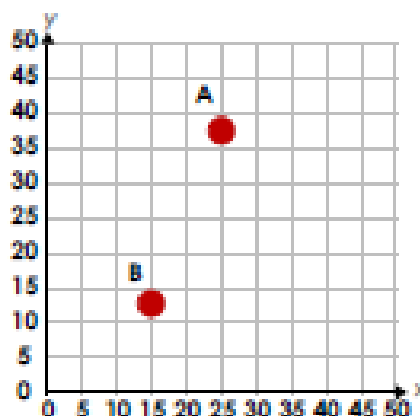
VF

8a. True or False? Point A has been  
translated 20 left and 15 down to point B.



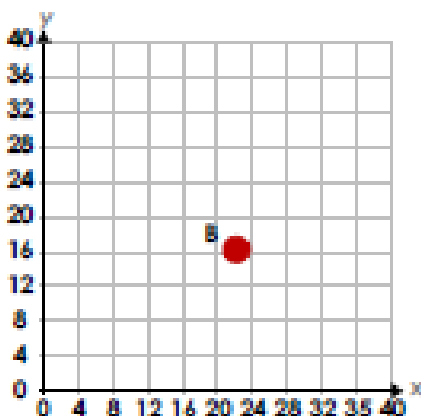
VF

8b. True or False? Point A has been  
translated 10 left and 25 down to point B.



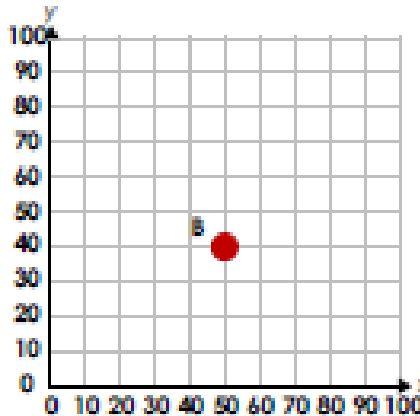
VF

9a. Point A has been translated 10 right  
and 6 up to point B. Record the original  
coordinates for point A.



VF

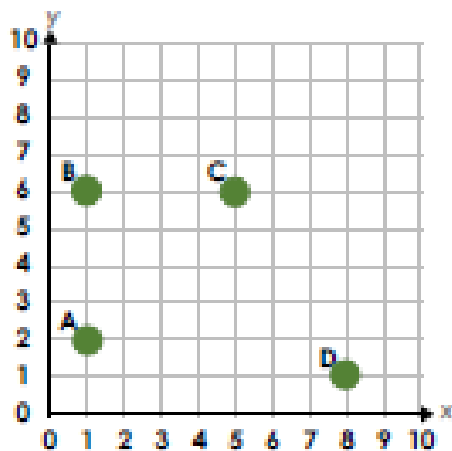
9b. Point A has been translated 5 right and  
25 down to point B. Record the original  
coordinates for point A.



VF

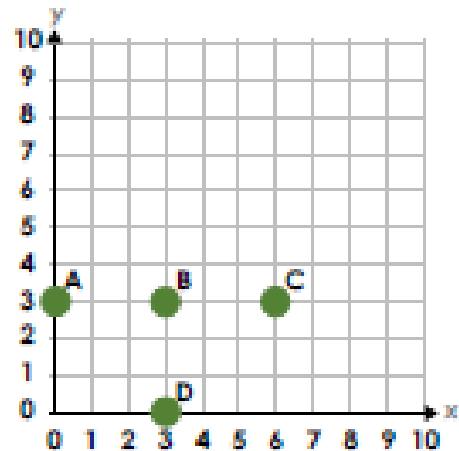
## Reasoning

4a. Move one point to create the vertices for a square. Record the new coordinates.



PS

4b. Move one point to create the vertices for a square. Record the new coordinates.



PS

5a. Points are placed on the following coordinates:

$(7, 5)$   $(4, 7)$   $(1, 4)$

Each of the points have been moved 1 square in one direction and 3 squares in another.

What could the new coordinates be?  
Find 2 possibilities.



PS

5b. Points are placed on the following coordinates:

$(5, 8)$   $(7, 4)$   $(6, 7)$

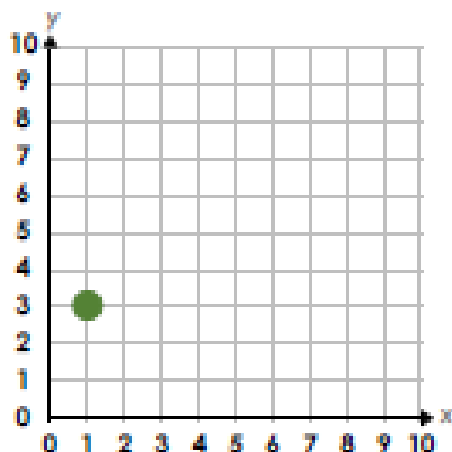
Each of the points have been moved 2 square in one direction and 2 squares in another.

What could the new coordinates be?  
Find 2 possibilities.



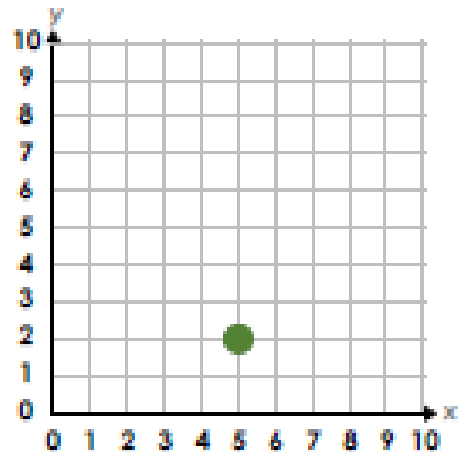
PS

6a. The point was moved 3 left and 2 up. Ben thinks the original coordinates were  $(4, 1)$ . Is he correct? Prove it.



PS

6b. The point was moved 5 right and 1 up. Eve thinks the original coordinates were  $(1, 1)$ . Is she correct? Prove it.



PS