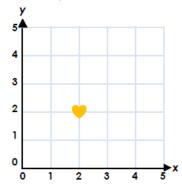
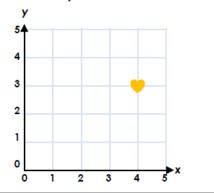
Describe Movement

Describe Movement

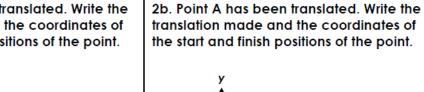
1a. The heart has been translated. Its starting coordinates were (2, 0). Lee says it has moved 2 up. Is he correct? Explain.

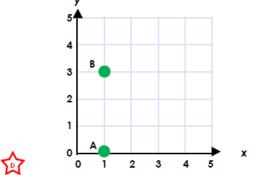


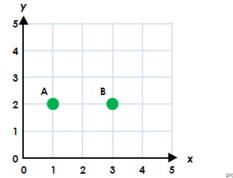
1b. The heart has been translated. Its starting coordinates were (1, 3). Kayleigh says it has moved 4 right. Is she correct? Explain.



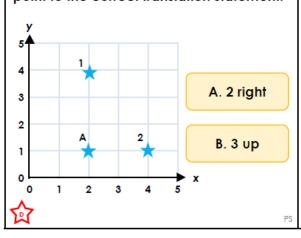
2a. Point A has been translated. Write the translation made and the coordinates of the start and finish positions of the point.



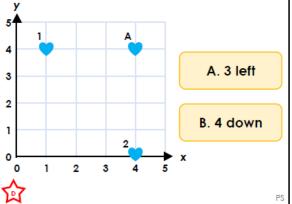




3a. Star A has been translated. Match the point to the correct translation statement.



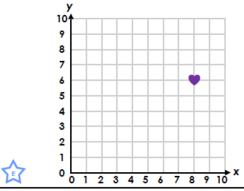
3b. Heart A has been translated two times. Match the shape to the correct translation statement.



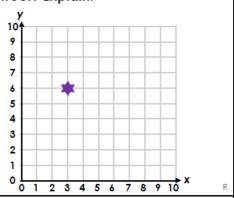
Describe Movement

Describe Movement

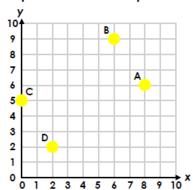
4a. The heart has been translated. Its starting coordinates were (4, 5). Ruby says it has moved 1 right and 4 up. Is she correct? Explain.



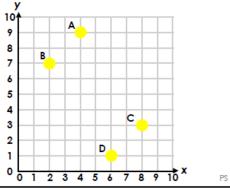
4b. The star has been translated. Its starting coordinates were (5, 8). Ali says it has moved 2 left and 2 down. Is he correct? Explain.



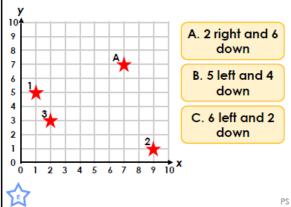
5a. Points A and B have made exactly the same translations. Write the translations made and the coordinates of the start and finish positions of each point.



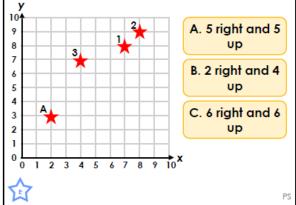
5b. Points A and B have made exactly the same translations. Write the translations made and the coordinates of the start and finish positions of each point.



6a. Star A has been translated three times. Match each numbered point to the correct translation statement.



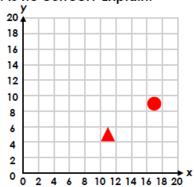
6b. Star A has been translated three times. Match each numbered point to the correct translation statement.



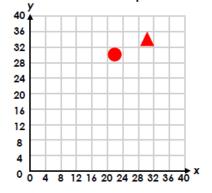
Describe Movement

Describe Movement

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.

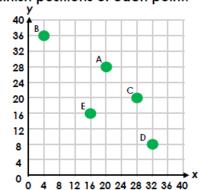


7b. The triangle and circle have been translated from (18, 18) and (10, 14). Tiana says they have both moved 16 right and 16 down. Is she correct? Explain.

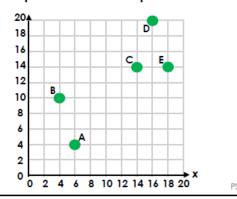




8a. Points A and B have made exactly the same translations. Write the translations made and the coordinates of the start and finish positions of each point.

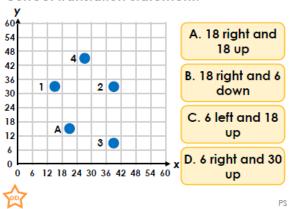


8b. Points A and B have made exactly the same translations. Write the translations made and the coordinates of the start and finish positions of each point.

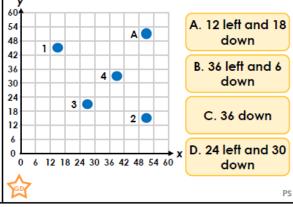




9a. Point A has been translated four times. Match each numbered point to the correct translation statement.



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



Reasoning and Problem Solving Describe Movement

Developing

1a. Yes, Lee is correct because the new coordinates are (2, 2).

2a. It has moved 3 squares up. A (1, 0) has moved to B (1, 3).

3a. 1B; 2A

Expected

4a. No, Ruby is incorrect because it has moved 4 squares right and 1 square up. 5a. They have both moved 6 squares left and 4 squares down. A (8, 6) has moved to D (2, 2); B (6, 9) has moved to D (0, 5). 6a. 1C; 2A; 3B

Greater Depth

7a. Yes, Jim is correct because the new coordinates are (11, 5) and (17, 9).

8a. They have both moved 12 right and 20 down. A (20, 28) has moved to D (32, 8); B (4, 36) has moved to E (16, 16).

9a. 1C; 2A; 3B; 4D

Reasoning and Problem Solving Describe Movement

Developing

1b. No because the heart has moved 3 squares right.

2b. It has moved 2 squares right. A (1, 2) has moved to B (3, 2).

3b. 1A; 2B

Expected

4b. Yes, Ali is right because the new coordinates are (3, 6).

5b. They have both moved 4 squares right and 6 squares down. A (4, 9) has moved to C (8, 3); B (2,7) has moved to D (6, 1). 6b. 1A; 2C; 3B

Greater Depth

7b. No, she is incorrect because they both move 12 right and 16 up.

8b. They have both moved 12 right and 20 down. A (6, 4) has moved to E (18, 14); B (4, 10) has moved to D (16, 20).

9b. 1B; 2C; 3D; 4A