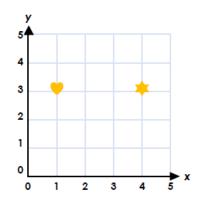
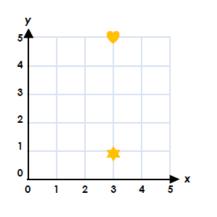
Describe Movement

Describe Movement

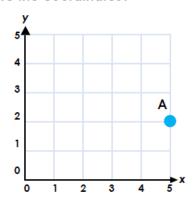
1a. Describe the movement needed for the heart to reach the star.



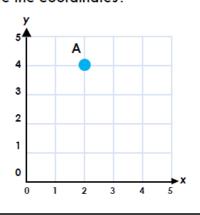
1b. Describe the movement needed for the star to reach the heart.



2a. Translate point A left 4. What are the coordinates?



2b. Translate point A down 3. What are the coordinates?



3a. A point is plotted on a grid on (1, 4).

It is translated 3 down.

What are the new coordinates?

3b. A point is plotted on a grid on (2, 2).

It is translated 3 right.

What are the new coordinates?



4a. Sam plotted a point on a grid at (3, 3).

It is translated to (3, 5).

How is it translated?



4b. Carl plotted a point on a grid at (1, 5).

It is translated to (4, 5).

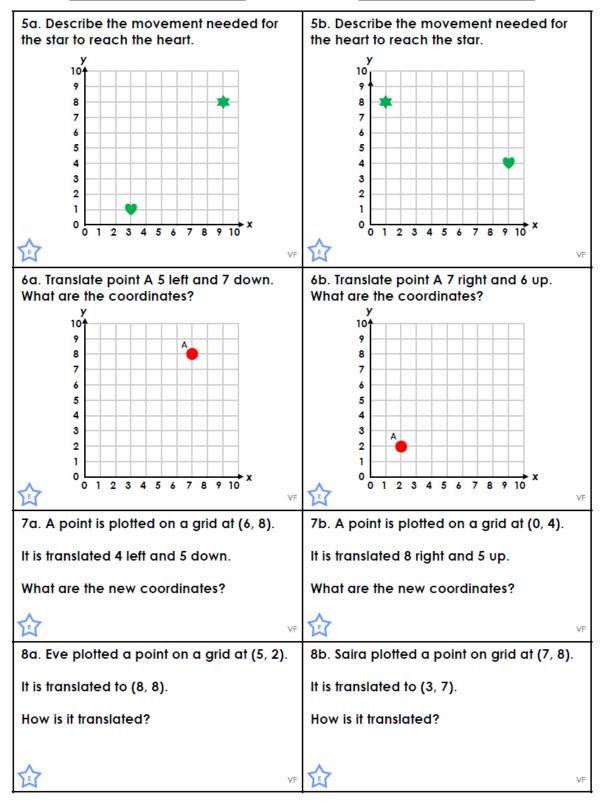
How is it translated?





Describe Movement

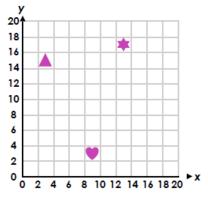
Describe Movement



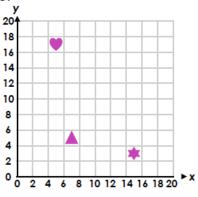
Describe Movement

Describe Movement

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

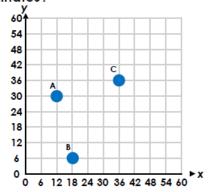


9b. Describe the movement needed for the star to go to the heart, then to the triangle.

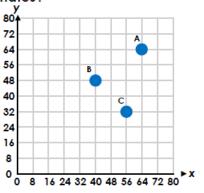


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10a. Translate points A, B and C by 24 right and 18 up. What are the new coordinates?



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



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?

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?



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. Qasim 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?





<u>Varied Fluency</u> Describe Movement

<u>Varied Fluency</u> Describe Movement

Developing

1a. 3 right

2a. (1, 2)

3a. (1, 1)

4a. 2 up

Expected

5a. 6 left and 7 down

6a. (2, 1)

7a. (2, 3)

8a. 3 right and 6 up

Greater Depth

9a. 10 right and 2 up; 14 down and 4 left

10a. A. (36, 48); B. (42, 24); C. (60, 54)

11a. A. (16, 4); B. (20, 28); C. (36, 12)

12a. 16 right and 20 up

Developing

1b. 4 up

2b. (2, 1)

3b. (5, 2)

4b. 3 right

Expected

5b. 8 left and 4 up

6b. (9, 8)

7b. (8, 9)

8b. 4 left and 1 down

Greater Depth

9b. 10 left and 14 up; 2 right and 12 down

10b. A. (40, 32); B. (16, 16); C. (32, 0)

11b. A. (16, 28); B. (36, 32); C. (40, 36)

12b. 18 left and 12 down