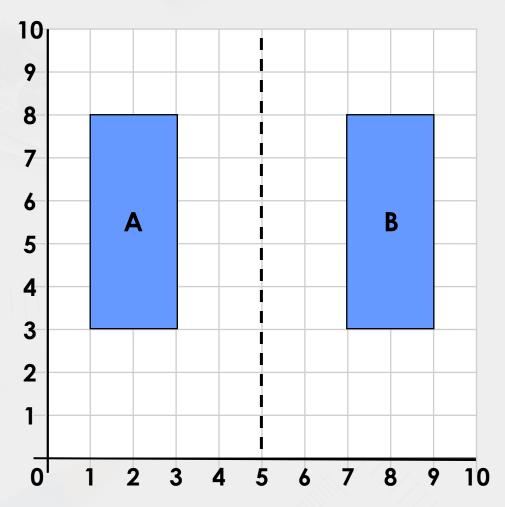
Wednesday 4th July

Year 5: Reflection with Coordinates



Introduction

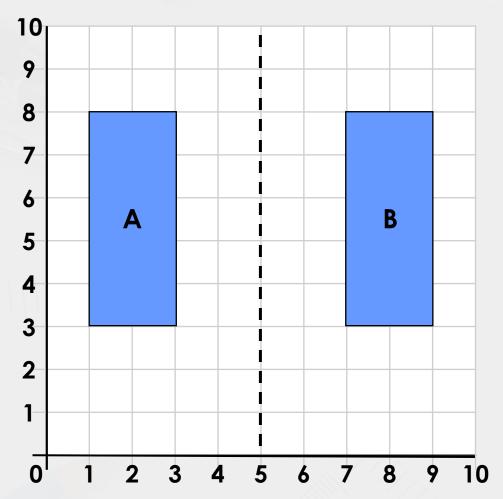


 What are the coordinates of Shape A?

 What are the coordinates of the reflected shape (Shape B)?



Introduction



 What are the coordinates of Shape A?

 What are the coordinates of the reflected shape (Shape B)?



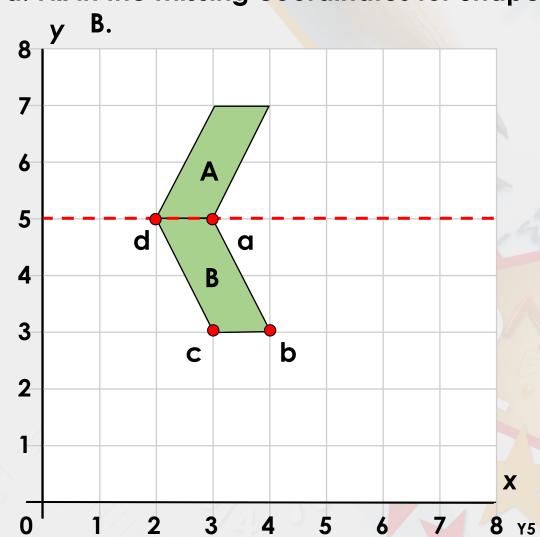
Shape A has been reflected. Fill in the missing coordinates for Shape

Point Shape B

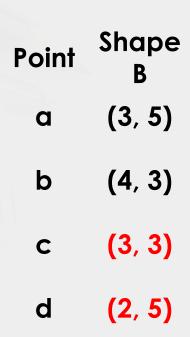
a (3, 5)

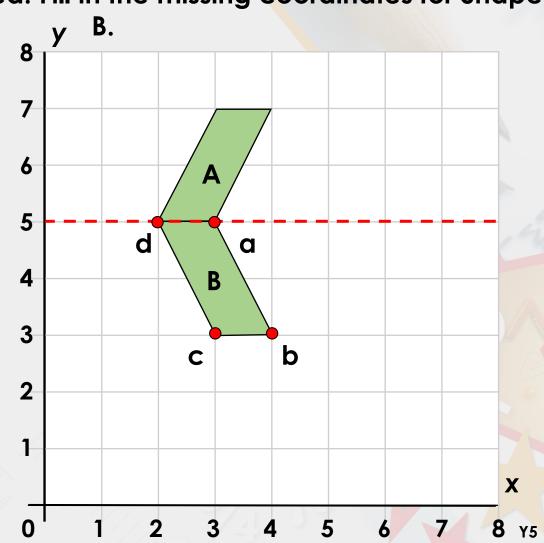
b (4, 3)

c (,)



Shape A has been reflected. Fill in the missing coordinates for Shape

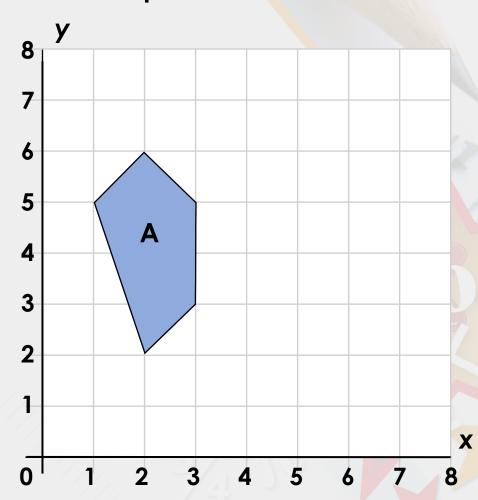




Draw a line of symmetry so that the below coordinates show a reflection of Shape A:



- (6, 6)
- (7, 5)
- (6, 2)
- (5, 3)

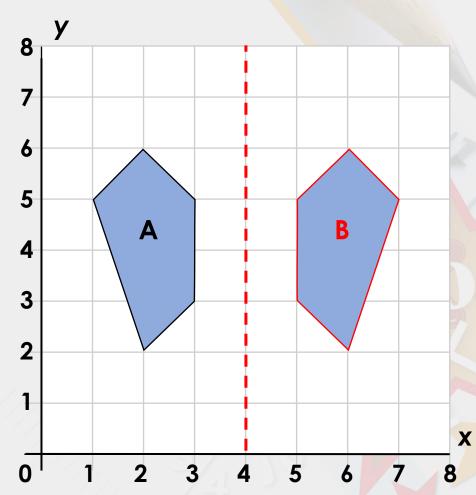


Y5

Draw a line of symmetry so that the below coordinates show a reflection of Shape A:



- (6, 6)
- (7, 5)
- (6, 2)
- (5, 3)



Y5

Circle the correct set of coordinates if Shape A is reflected.

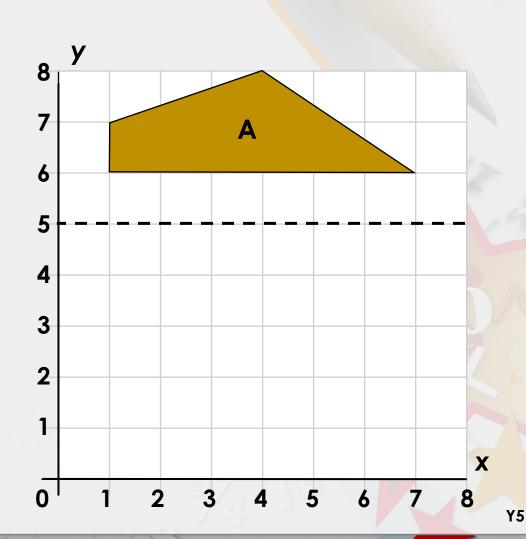
Set A Set B

(1, 4) (1, 4)

(1, 3) (1, 3)

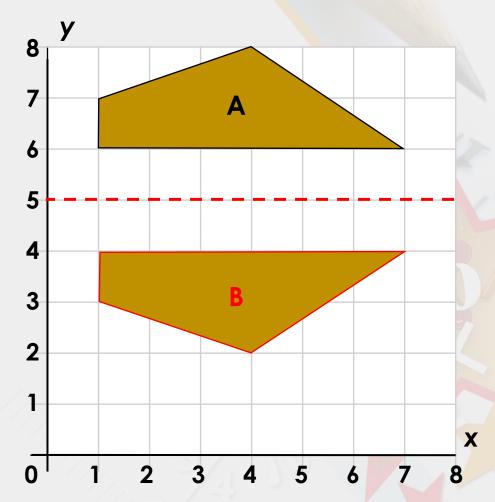
(2, 4) (4, 2)

(7, 4) (7, 4)



Circle the correct set of coordinates if Shape A is reflected.

Set A Set B
(1, 4) (1, 4)
(1, 3) (1, 3)
(2, 4) (4, 2)
(7, 4) (7, 4)

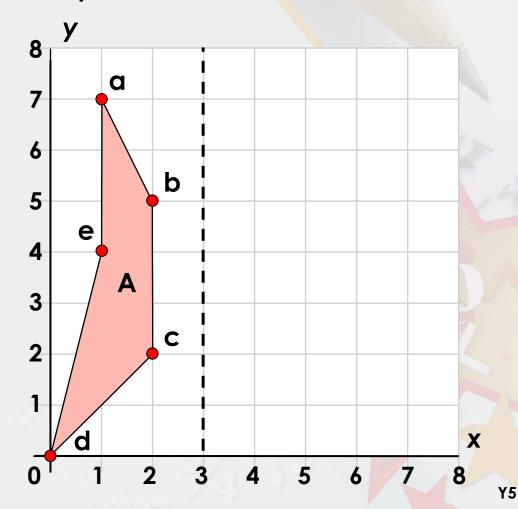




Y5

Reflect Shape A to create Shape B. Write the coordinates for both shapes.

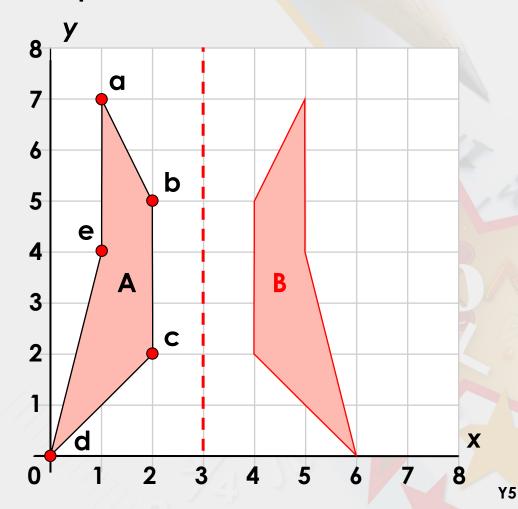
Point	Shape A			Shape B		
а	(,)	(,)
b	(,)	(,)
С	(,)	(,)
d	(,)	(,)
е	(,)	(,)





Reflect Shape A to create Shape B. Write the coordinates for both shapes.

Point	Shape A	Shape B		
a	(1, 7)	(5, 7)		
b	(2, 5)	(4, 5)		
С	(2, 2)	(4, 2)		
d	(0, 0)	(6, 0)		
е	(1, 4)	(5, 4)		





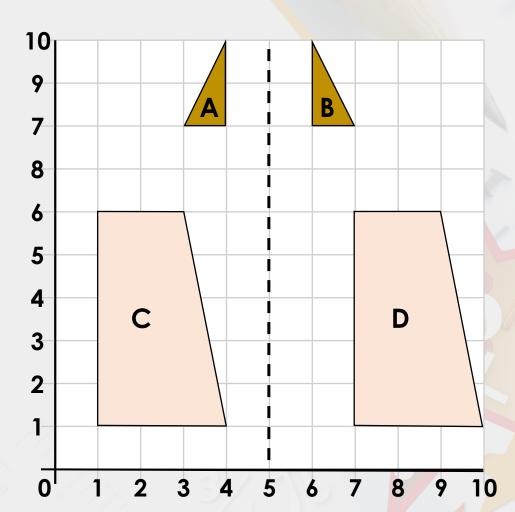
Explain the three mistakes below.

A (3, 8) (4, 10) (4, 8)

B (7, 8) (7, 10) (6, 8)

C (1, 1) (1, 6) (3, 6) (1, 4)

D (7, 1) (6, 6) (9, 6) (9, 1)



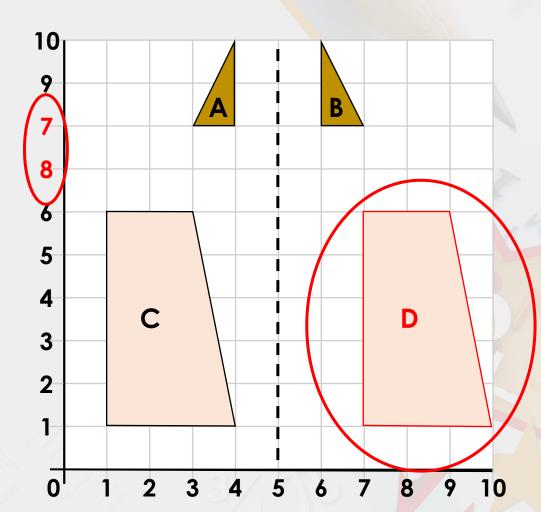
Explain the three mistakes below.

A (3, 8) (4, 10) (4, 8)

B (7, 8) (7, 10) (6, 8)

c (1, 1) (1, 6)(3, 6) (1, 4)

D (7, 1) (6, 6) (9, 6) (9, 1)



Explain the three mistakes below.

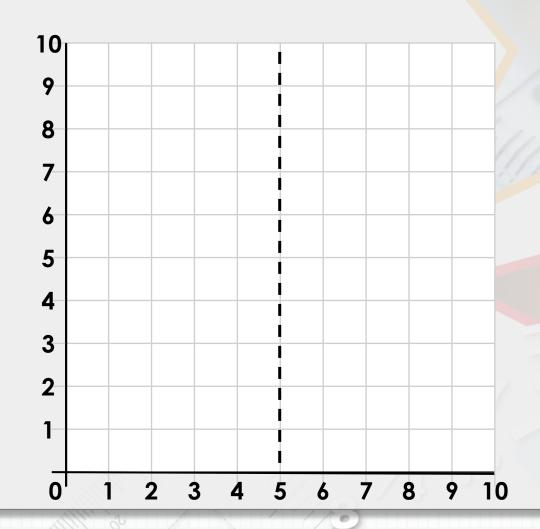
- 1. The last coordinate for Shape C is incorrect; it should be (4, 1) not (1, 4).
- 2. The y axis is incorrectly labelled. It has the 7 and 8 the wrong way round.
- Shape D is not the correct reflection for Shape C.



Problem Solving 1

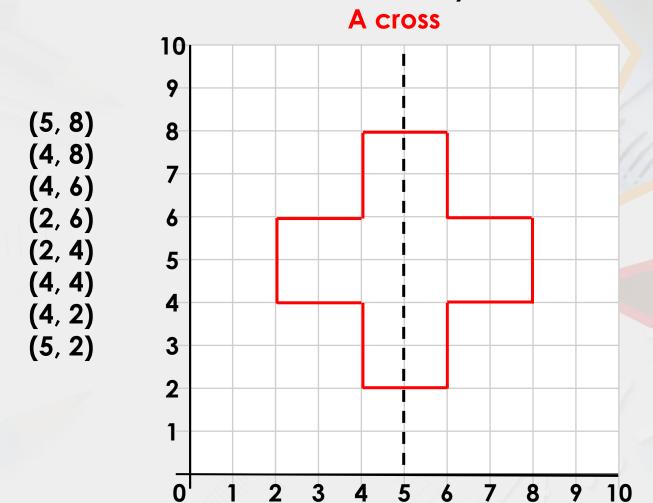
Plot these coordinates and join them in order. Reflect it. What have you drawn?



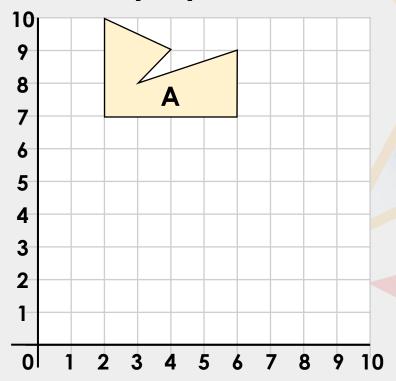


Problem Solving 1

Plot these coordinates and join them in order.
Reflect it. What have you drawn?



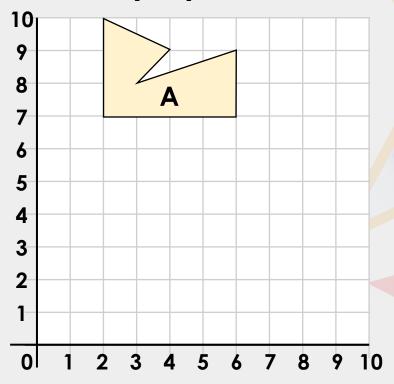
Shara says it is impossible to reflect this shape so that it has a coordinate of (2, 0).



Do you agree? Prove it.



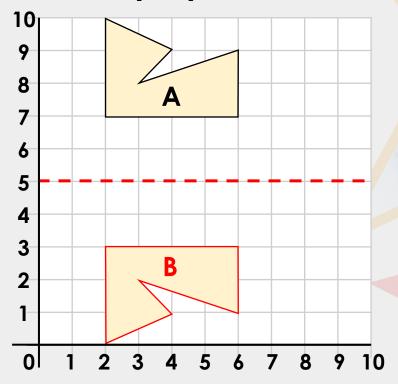
Shara says it is impossible to reflect this shape so that it has a coordinate of (2, 0).



Do you agree? Prove it.
Shara is incorrect because...



Shara says it is impossible to reflect this shape so that it has a coordinate of (2, 0).



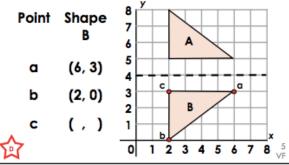
Do you agree? Prove it.

Shara is incorrect because you can reflect Shape A in order to use the coordinate (2, 0) as shown above.

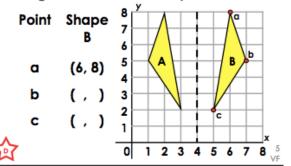


Year 5 Developing

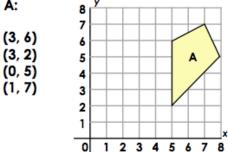
1a. Shape A has been reflected. Fill in the missing coordinate for Shape B.



1b. Shape A has been reflected. Fill in the missing coordinates for Shape B.



2a. Draw a line of symmetry so that the below coordinates show a reflection of Shape A:



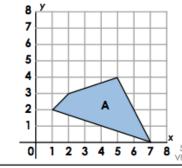
2b. Draw a line of symmetry so that the below coordinates show a reflection of Shape A:

(5, 4)

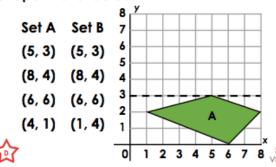
(7, 8)

(1, 6)

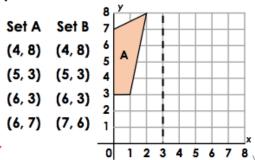
(2, 5)



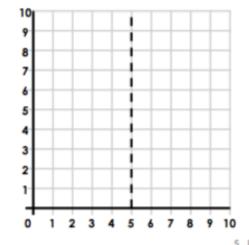
3a. Circle the correct set of coordinates if Shape A is reflected.



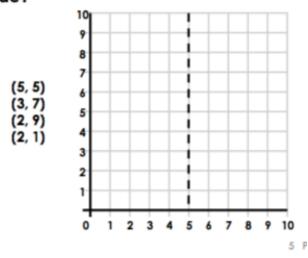
3b. Circle the correct set of coordinates if Shape A is reflected.



2a. Plot these coordinates and join them in order. Reflect it. What letter have you made?



2b. Plot these coordinates and join them in order. Reflect it. What letter have you made?



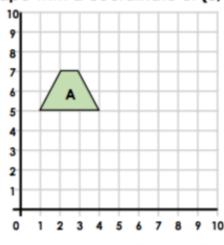


(5, 5) (3, 5)

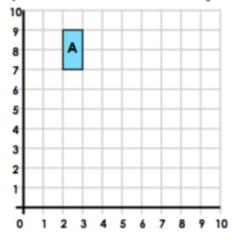
(3, 9)

(3, 1)

3a. Nolan says it is impossible to reflect this shape with a coordinate of (8, 7).



3b. Shania says it is impossible to reflect this shape with a coordinate of (2, 5).





Do you agree? Prove it.

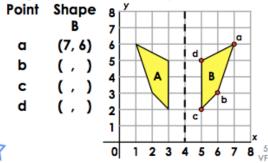


Do you agree? Prove it.

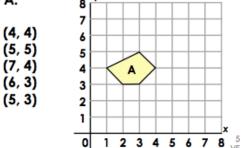
Year 5 Expected

5a. Shape A has been reflected. Fill in the missing coordinates for Shape B.

 5b. Shape A has been reflected. Fill in the missing coordinates for Shape B.

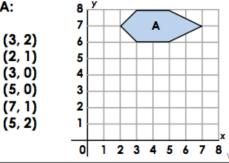


6a. Draw a line of symmetry so that the below coordinates show a reflection of Shape A:

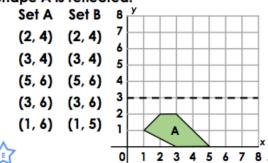


6b. Draw a line of symmetry so that the below coordinates show a reflection of Shape A:

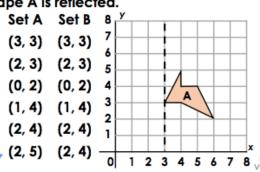
8 9



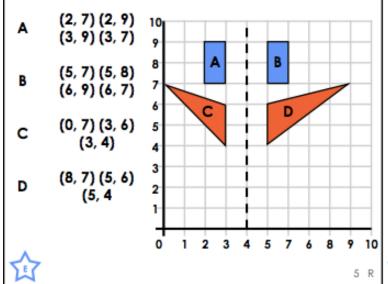
7a. Circle the correct set of coordinates if Shape A is reflected.



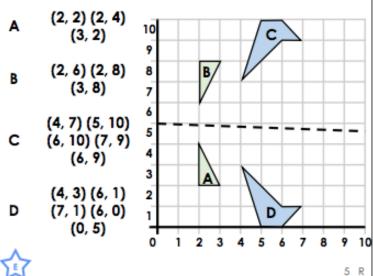
7b. Circle the correct set of coordinates if Shape A is reflected.



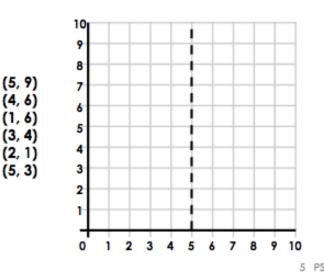
4a. Explain the three mistakes below.



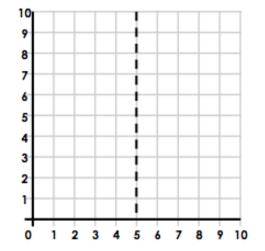
4b. Explain the three mistakes below.



5a. Plot these coordinates and join them in order. Reflect it. What have you drawn?



5b. Plot these coordinates and join them in order. Reflect it. What have you drawn?







(5, 1)

(1, 5)

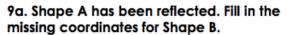
(1, 7)

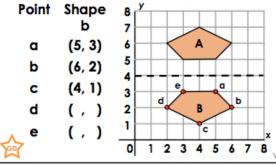
(2, 9)

(3, 9)

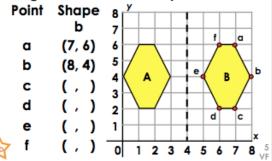
(5, 7)

Year 5 Greater Depth

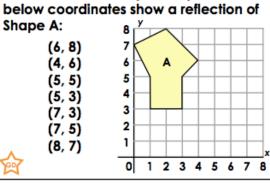




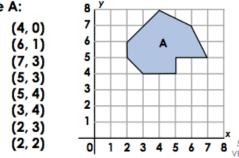
9b. Shape A has been reflected. Fill in the missing coordinates for Shape B.



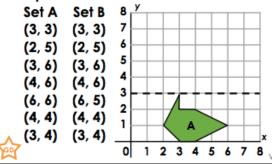
10a. Draw a line of symmetry so that the below coordinates show a reflection of



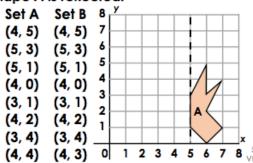
10b. Draw a line of symmetry so that the below coordinates show a reflection of Shape A:



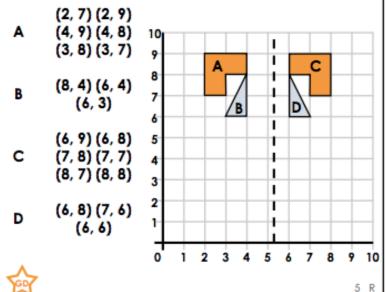
11a. Circle the correct set of coordinates if Shape A is reflected.



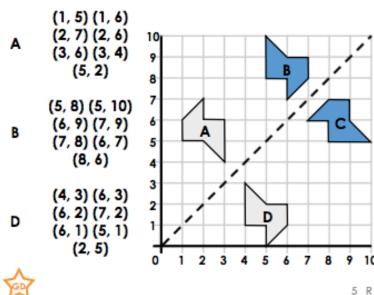
11b. Circle the correct set of coordinates if Shape A is reflected.



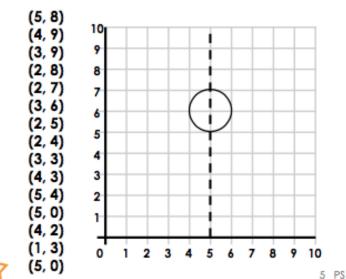
7a. Explain the five mistakes below.



7b. Explain the five mistakes below.



8a. Plot these coordinates and join them in order. Reflect it. What have you drawn?



8b. Plot these coordinates and join them in order. Reflect it. What have you drawn?

