

Clive On Transformations 2 - Answers

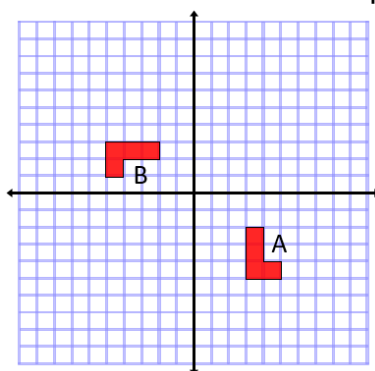
Clive is tackling his transformations homework and knows that he's made mistakes somewhere.

Can you spot and correct the mistakes Clive has made?

Can you explain what mistakes Clive has made, and maybe give him some tips so that he (hopefully) doesn't make them again?

Question 1:

Describe fully the single transformation that maps shape A onto shape B:



Clive's answer:

Reflection in the line $y = x$

Your answer:

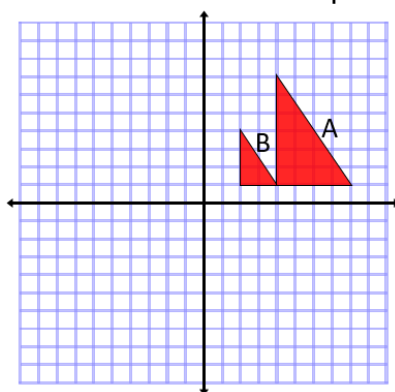
Rotation, 90° clockwise, centre (3,3)

What mistake has Clive made?

He has chosen the wrong type of transformation.

Question 2:

Describe fully the transformation that maps shape A onto shape B:



Clive's answer:

Enlargement, scale factor 2, centre (0,1)

Your answer:

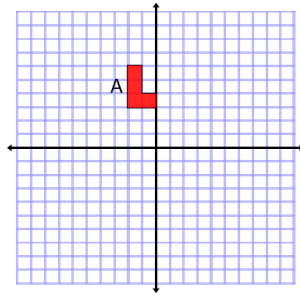
Enlargement, scale factor $\frac{1}{2}$, centre (0,1)

What mistake has Clive made?

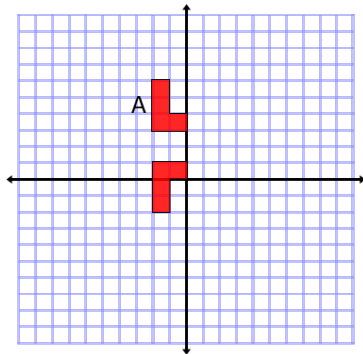
He has described the transformation from B to A instead of A to B.

Question 3:

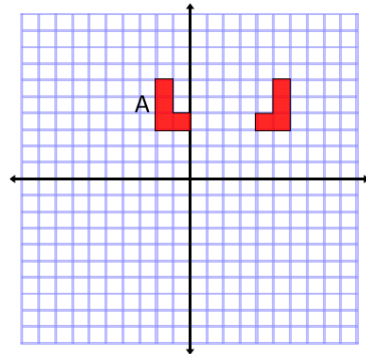
Reflect shape A in the line $x = 2$:



Clive's answer:



Your answer:

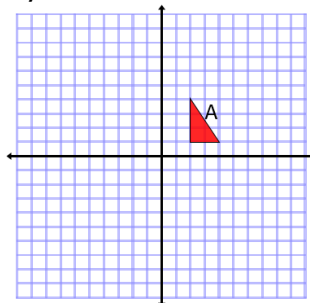


What mistake has Clive made?

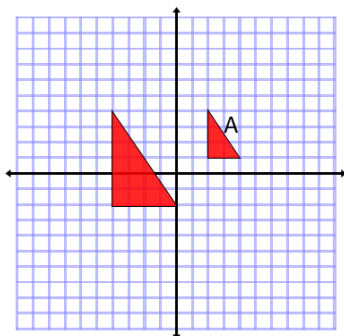
He has reflected in the line $y = 2$ instead of the line $x = 2$.

Question 4:

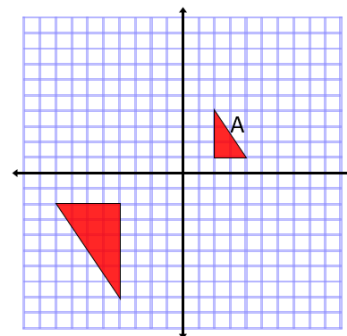
Enlarge shape A by scale factor -2 , centre the origin:



Clive's answer:



Your answer:



What mistake has Clive made?

He has enlarged by scale factor 2 and the centre is (8,4).