

Name - _____

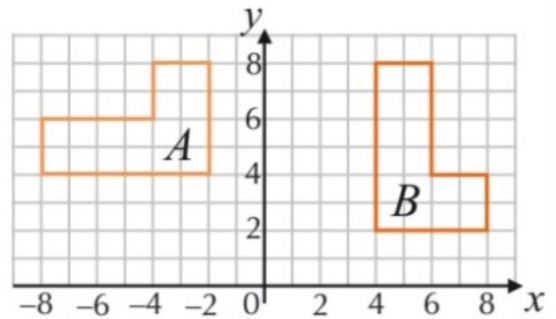
Start time - __: __

End time - __: __

Solve the following

- The triangle ABC has vertices $A(-2, 1)$, $B(-2, 6)$ and $C(4, 1)$.
 - Draw the triangle on a pair of axes with x-values from -4 to 8 and y-values from -6 to 6.
 - Rotate the triangle a quarter-turn clockwise about $(5, 4)$. Label the image A_1, B_1, C_1
 - Write down the coordinates of A_1, B_1 , and C_1 .
- The triangle DEF has coordinates $D(-2, -2)$, $E(-2, 5)$ and $F(3, 5)$. DEF is rotated a half-turn about $(2, 0)$ to create the image D_1, E_1, F_1 . Find the coordinates of D_1, E_1, F_1 .

- Describe fully the rotation that transforms shape A to shape B.



- The triangle UVW has vertices $U(1, 1)$, $V(3, 5)$ and $W(-1, 3)$. The triangle XYZ has vertices $X(-2, 4)$, $Y(-6, 6)$ and $Z(-4, 2)$.
 - Draw the two triangles on a pair of axes.
 - Describe fully the transformation that maps UVW to XYZ.

- Describe fully the transformation that maps shape A to shape B.
 - Describe fully the transformation that maps shape C to shape D.

