



Reflection

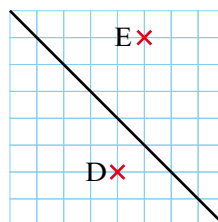
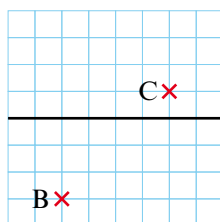
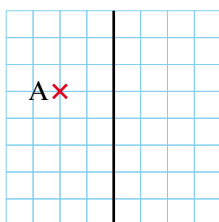
- Reflecting points and lines in a variety of mirror lines

Keywords

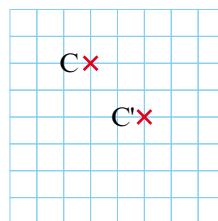
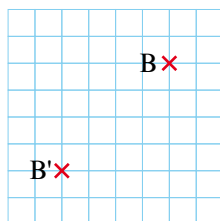
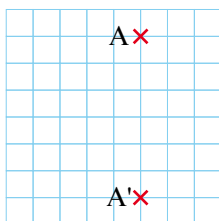
You should know

explanation 1

- 1** Copy these diagrams and show the image of each labelled point after reflection in the black mirror lines. Label the images A' , B' , C' , D' and E' .

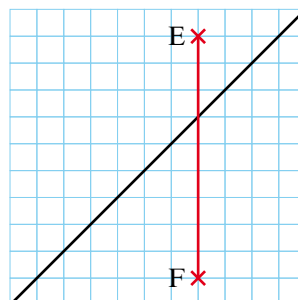
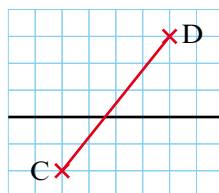
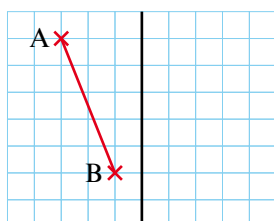


- 2** Copy these diagrams and draw a mirror line in the correct position for each one.

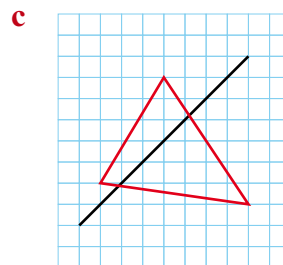
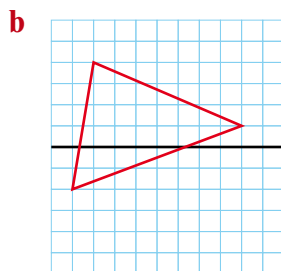
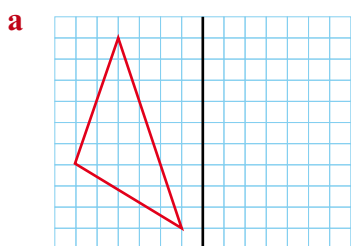


explanation 2

- 3** Copy the diagrams and reflect each labelled line in the black mirror line. Label the end points of each reflection.



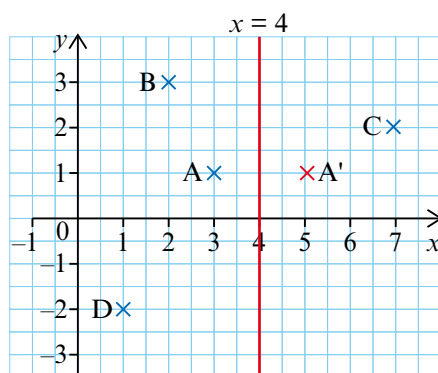
4 Copy these diagrams and reflect each shape in the black mirror line.



explanation 3

5 The image of $A(3, 1)$ after reflection in the line $x = 4$ is $A'(5, 1)$.

Write down the image of each of the other labelled points after reflection in $x = 4$.



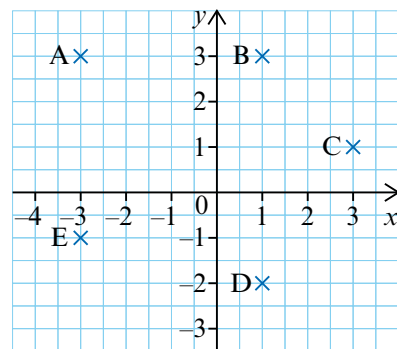
6 Write down the equation of the mirror line for each of the following.

a $A \rightarrow B$

b $B \rightarrow C$

c $B \rightarrow D$

d $B \rightarrow E$



7 Write down the coordinates of a point that maps to itself after reflection in $x = 2$.

8 Write down the coordinates of the point that $(3, -1)$ maps to after reflection in each of these lines.

a $x = 5$

b $x = -1$

c $y = -1$

d $y = 4$

e $y = x$

f $y = 2 - x$

g $y = -x$

h $y = 4 - x$