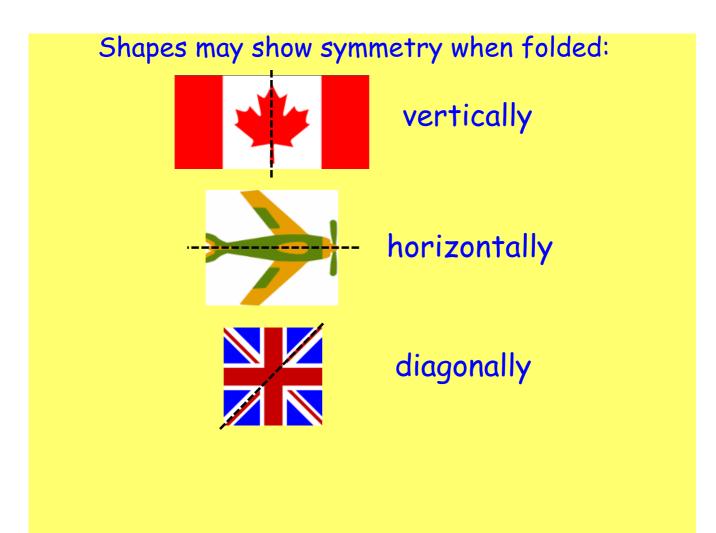
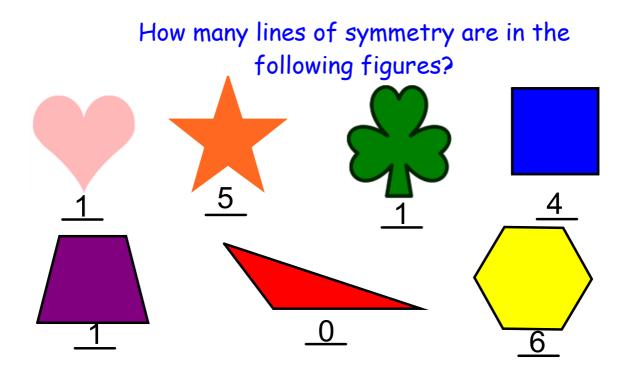
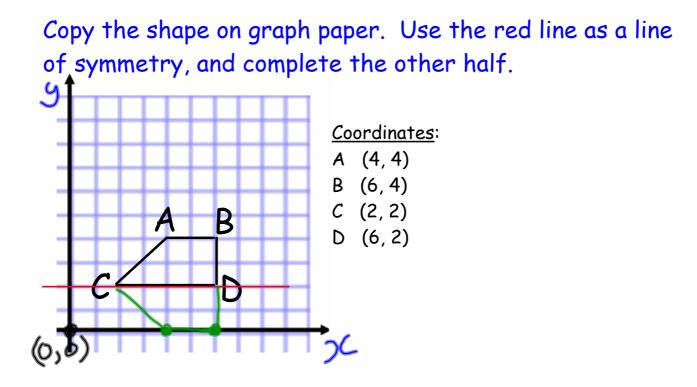


A figure has <u>symmetry</u> when it can be folded so two halves match, or are identical.

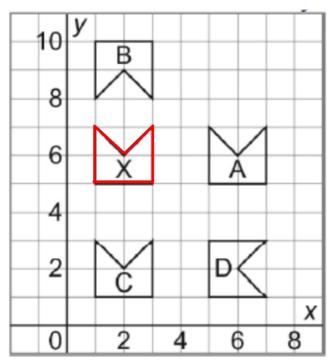






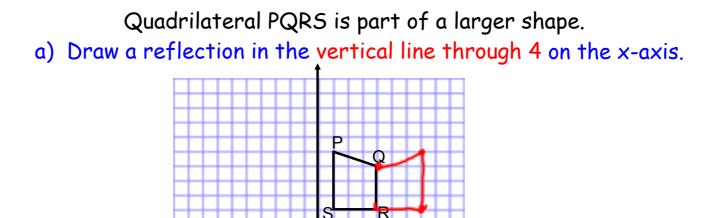


Identify the shapes that are related to the shape X by a line of <u>reflection</u>. Describe the symmetry in each case.



Erase to see answers.

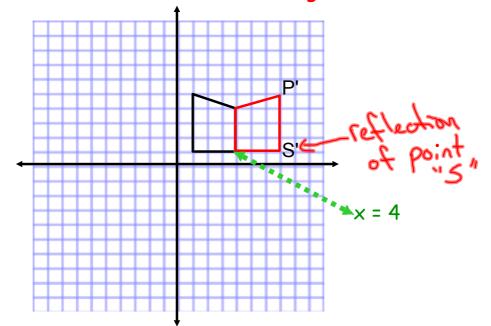
- <u>A</u>: reflected in vertical line passing through 4 on the x-axis
- <u>B</u>: reflected in horizontal line passir through 7.5 on the y-axis
- **<u>C</u>**: not related to X by line symmetry
- <u>D</u>: reflected in oblique line passing through (0, 0) and (8, 8)



- b) Write the coordinates of the larger shape formed.
- c) Describe the larger shape and its symmetry.

Go to next page to see answers

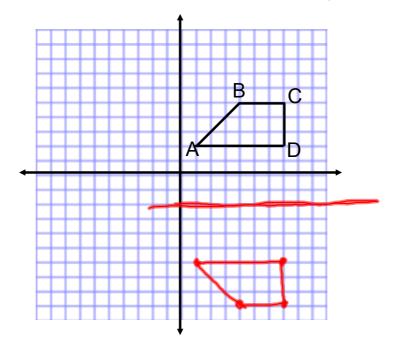
Quadrilateral PQRS is part of a larger shape. a) Draw a reflection in the vertical line through 4 on the x-axis.



b) Write the coordinates of the larger shape formed. P(1, 5) Q(4, 4) S(1,1) P'(7, 5) S'(7, 1) c) Describe the larger shape and its symmetry.

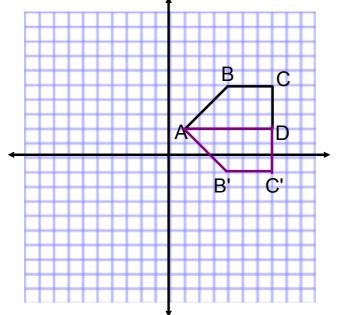
It is a pentagon with a line of symmetry through QR.

Draw a reflection in the horizontal line through 2 on the y-axis.



- b) Write the coordinates of the larger shape formed.
- c) Describe the larger shape and its symmetry.

Draw a reflection in the horizontal line through 2 on the y-axis.



b) Write the coordinates of the larger shape formed. A(1, 1) B(4, 5) C(7,5) B'(4,-1) C'(7,-1)
c) Describe the larger shape and its symmetry.

It is a pentagon with a line of symmetry through AD.

