our-way reflections

eflect a shape in two lines of symmetry

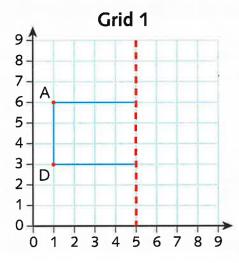


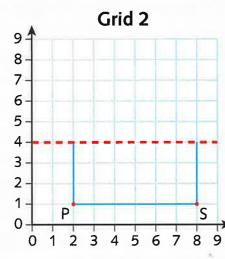
You will need:

- Resource 24: 9 x 9 coordinate grids
- ruler

Use Resource 24: 9 x 9 coordinate grids.

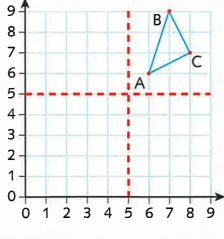
- a For Grid 1, copy the line of symmetry and the shape onto a 9 x 9 coordinate grid. Complete rectangle ABCD and write the coordinates of B and C.
- For Grid 2, copy the line of symmetry and the shape onto a 9 x 9 coordinate grid. Complete rectangle PQRS and write the coordinates of Q and R.







- Use a grid from Resource 24: 9 × 9 coordinate grids.
 - Copy triangle ABC onto the first quadrant of a 9 x 9 coordinate grid and copy the two lines of symmetry.
 - Reflect triangle ABC into the other three quadrants.
- 2 Using your work from Question 1, copy and complete the table for the points A, B and C, and their images in each quadrant.

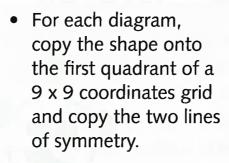


You will need:

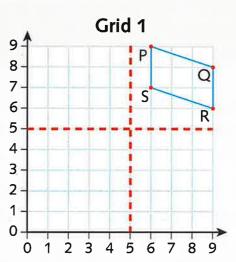
- Resource 24: 9 x 9 coordinate grids
- ruler

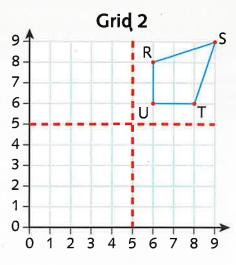
1st quadrant	2nd quadrant	3rd quadrant	4th quadrant		
A(6,6)	A' (,)	A" (,)	A''' (,)		
В(,)	B'(,)	B" (,)	B''' (,)		
C(,)	C'(,)	C"(,)	C''' (,)		

3 Use another grid from Resource 24: 9 x 9 coordinate grid.



• Reflect each shape into the other three quadrants.



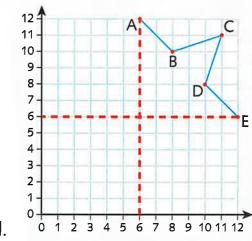


Using your work from Question 3, copy and complete the table for the point S in each grid.

Grid	1st quadrant		2nd quadrant		3rd quadrant		4th quadrant					
1	S(1,1)	S' (,)	S" (,)	S''' (,)
2	S(, s)	S' (,)	S" (7,)	S''' (,)

- Plot these points onto a 9×9 coordinate grid: D (5,9), E (8,8), F (8,6), G (5,5).
 - Reflect the shape into the other three quadrants using the same lines of symmetry as in Question 3 above.

- 1 Copy the grid and the shape onto 1 cm squared paper.
- 2 Reflect the points into the other three quadrants and join the points to form a shape.
- 3 Copy the table in Challenge 2, Question 2 and complete it for the points B, C and D in each grid.



You will need:

- 1 cm squared paper
- ruler



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