

Maths – Wednesday 27th January

Retrieval practice:

What does symmetrical mean?

Which direction of symmetry are we focusing on?

Retrieval practice:

What does symmetrical mean?

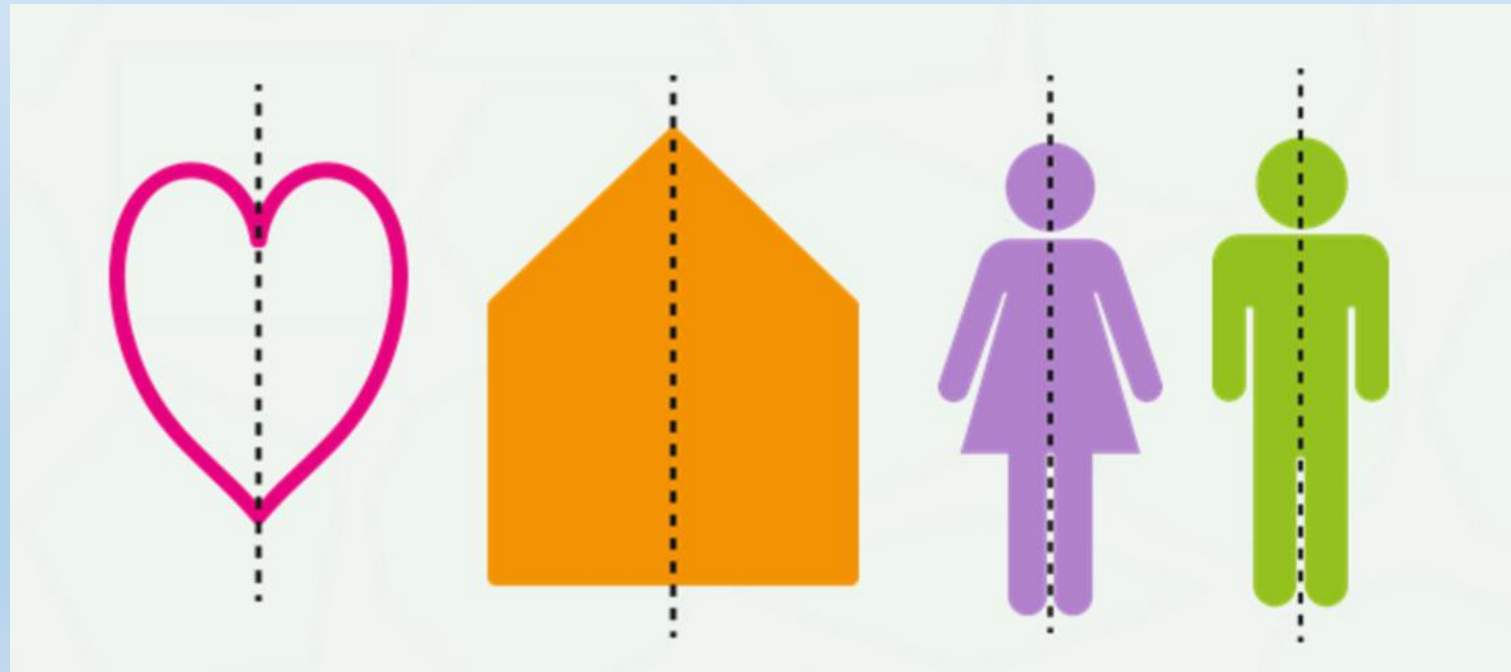
An image/object that is the same on both sides. Each side is a mirror image of the other.

Which direction of symmetry are we focusing on?

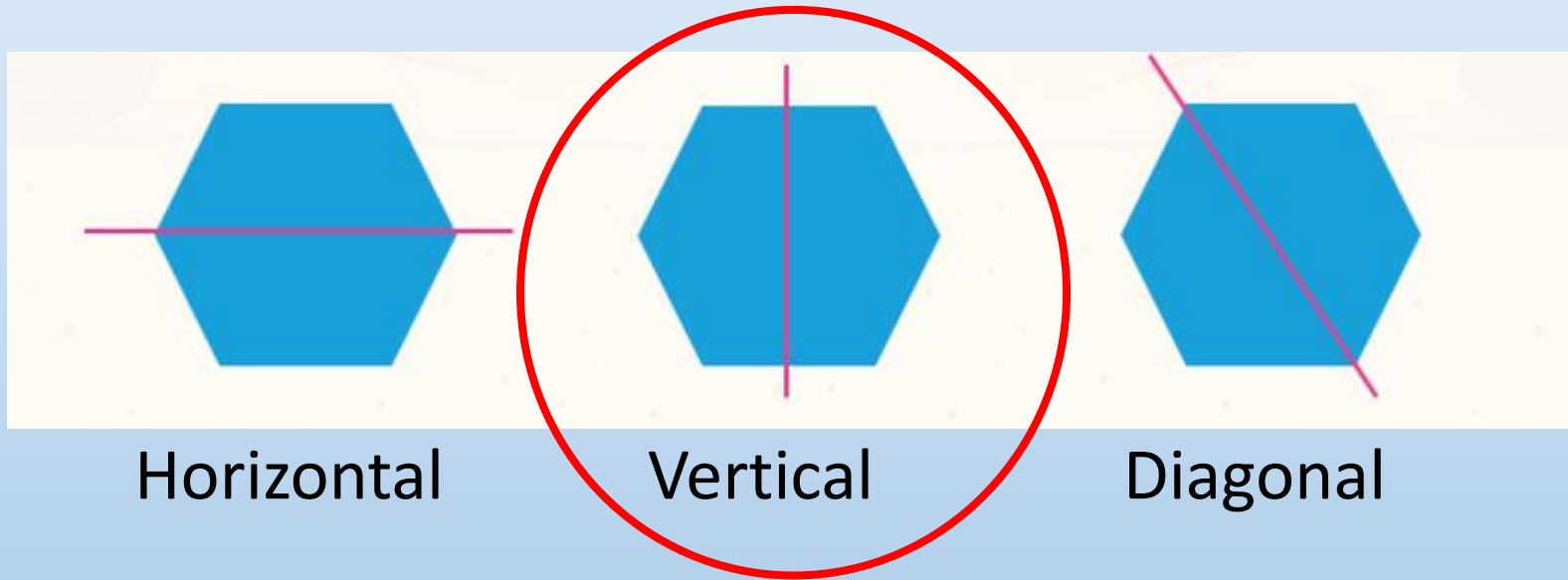
Vertical lines of symmetry.

Symmetry

- Something is symmetrical when one half of the image is a reflection of the other. You could fold the image in half and both would match exactly.

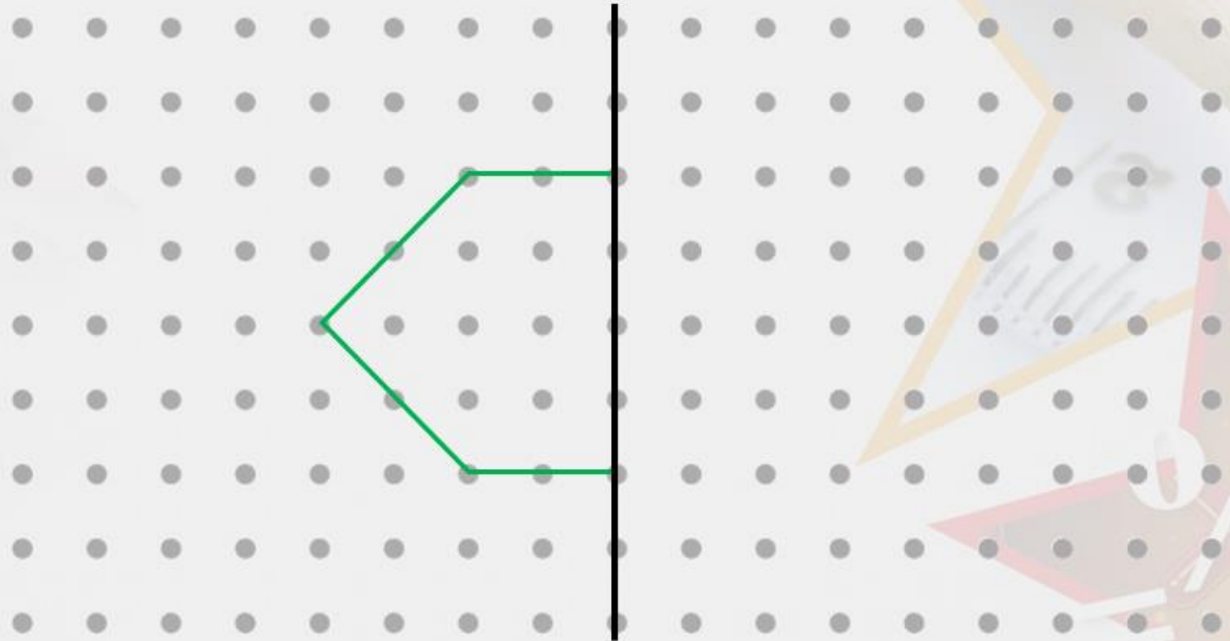


We will be focusing on vertical lines of symmetry.



WALT: Draw a symmetrical shape.

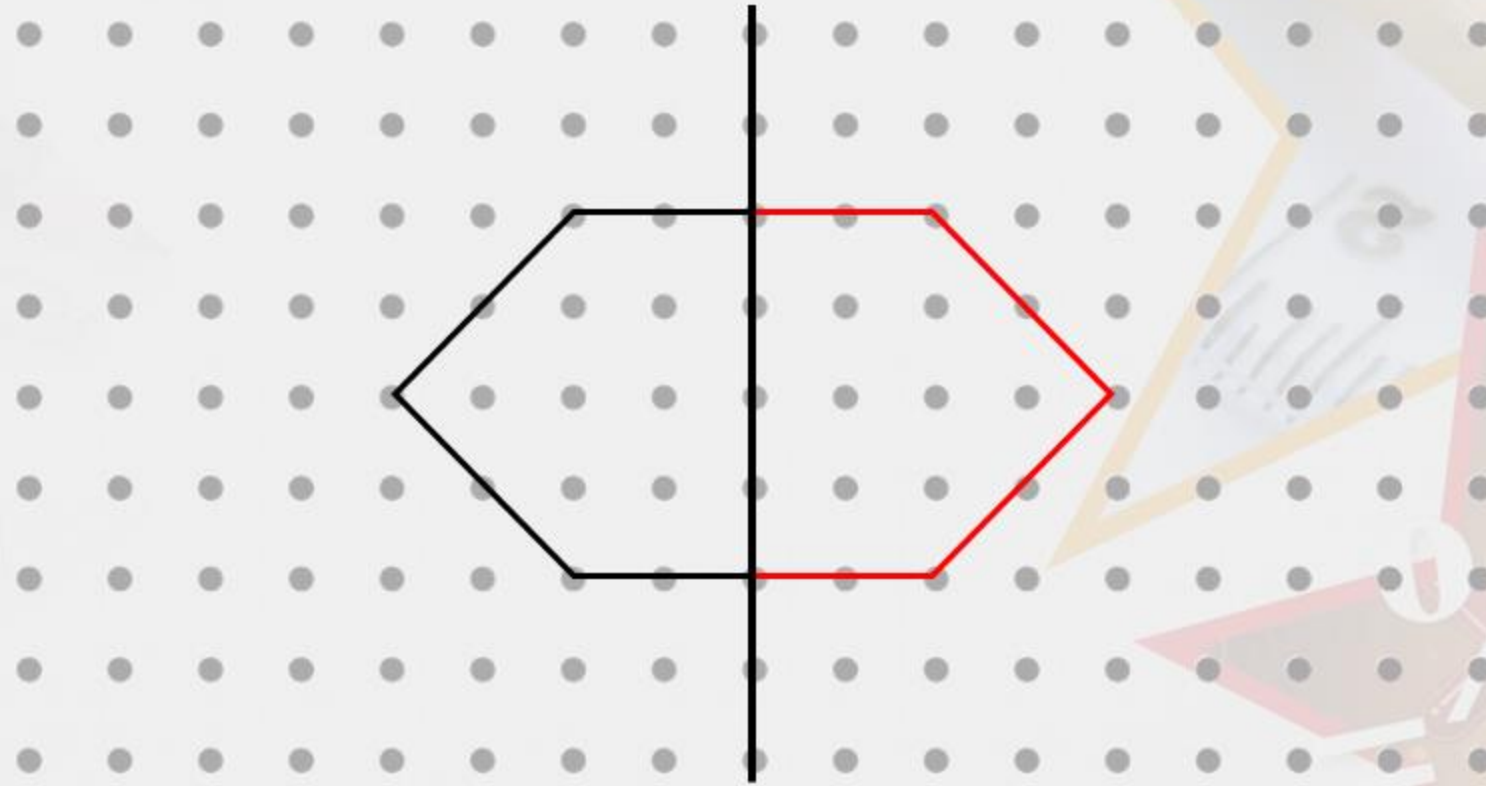
Complete the shape below so it has a vertical line of symmetry.



The image shows a 10x10 grid of dots. A vertical line is drawn through the 7th dot from the left. A green shape is drawn on the left side of the line, with vertices at (4, 5), (5, 5), (5, 6), (4, 6), and (5, 7). The shape is a pentagon that is not yet symmetrical.

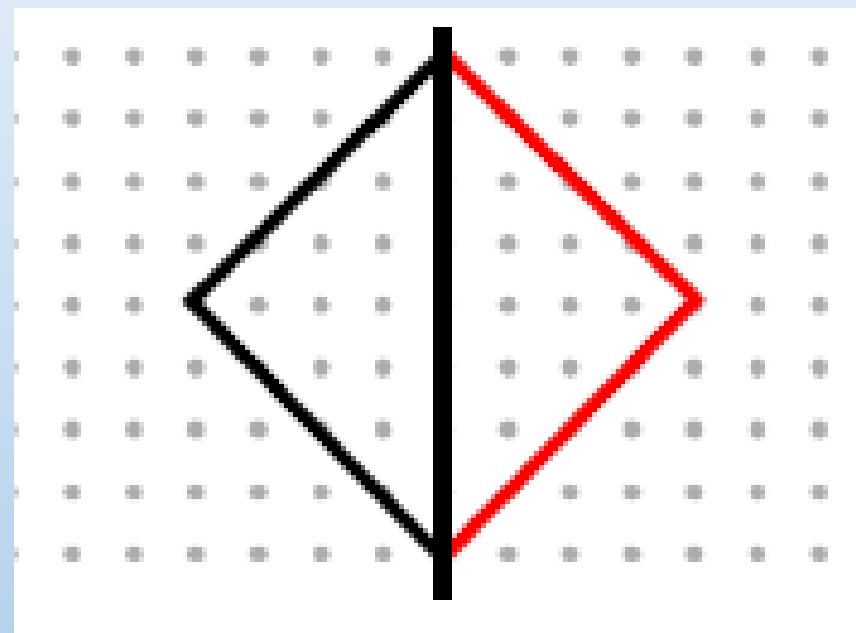
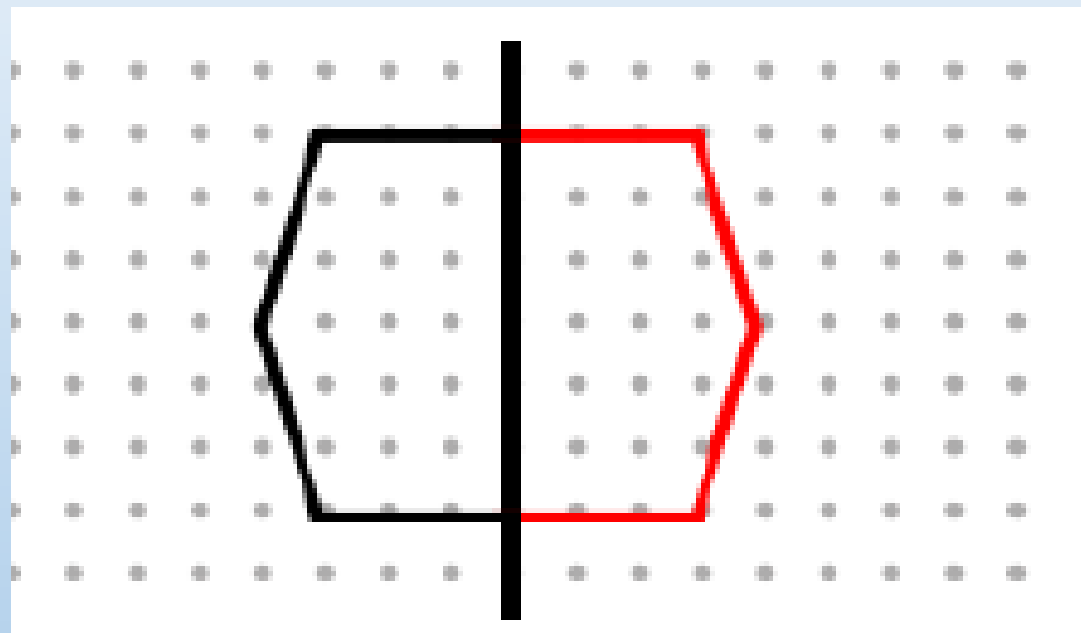
Name the shape.

Complete the shape below so it has a vertical line of symmetry.



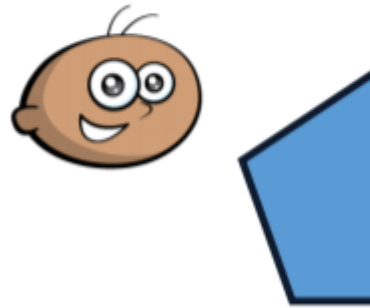
Name the shape.

Hexagon



One to discuss

Tommy has placed a mirror on the vertical line of symmetry. This is what he sees:



- What shape do you think it is and why?

One to discuss

Tommy has placed a mirror on the vertical line of symmetry. This is what he sees:



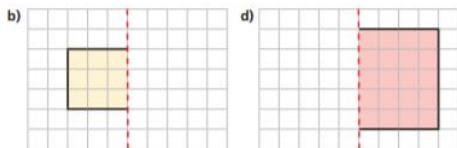
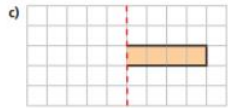
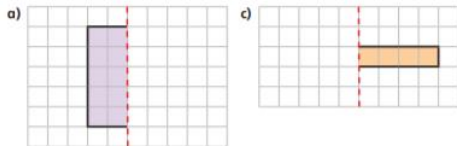
- What shape do you think it is and why?
- It is a pentagon because we could see 2 vertices that would be reflected on the other side and the line of symmetry was going through the fifth one.

Your task today

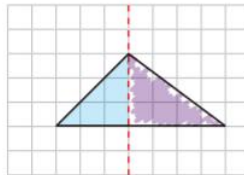
Lines of symmetry – draw the whole



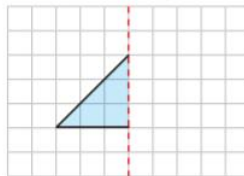
- 1 Each diagram shows half a shape and the line of symmetry. Complete each shape.



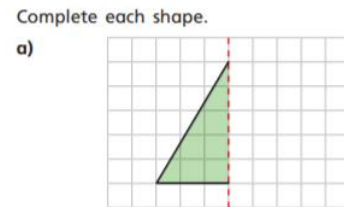
- 2 Rosie has completed this shape.



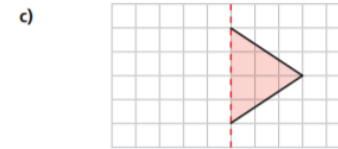
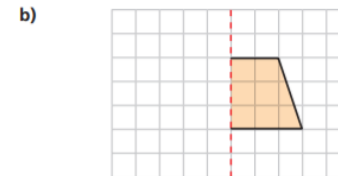
What has she done wrong?
Complete the shape correctly.



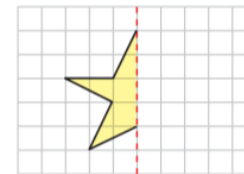
- 3 Each diagram shows half a shape and the line of symmetry. Complete each shape.



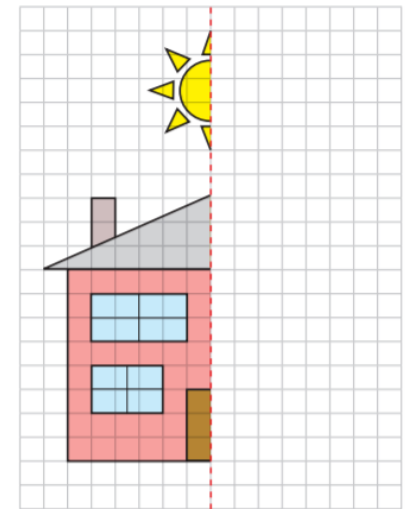
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- 4 Here is half a star and its line of symmetry. Complete the star.



- 5 Use symmetry to complete the picture.

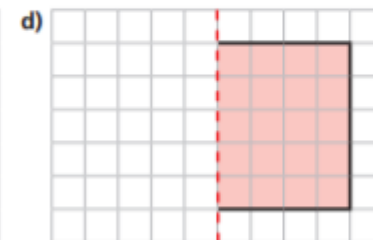
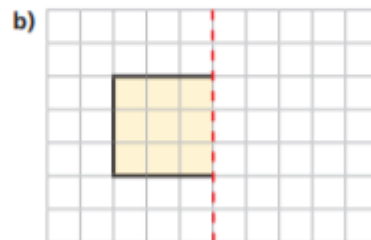
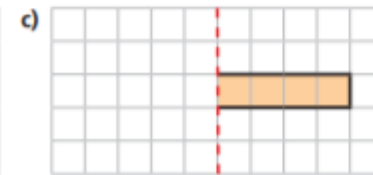
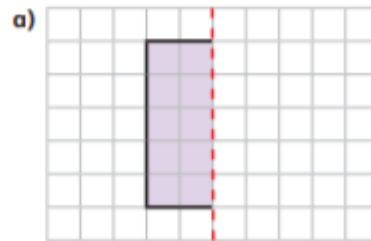


Make your own picture like this for a partner to complete.

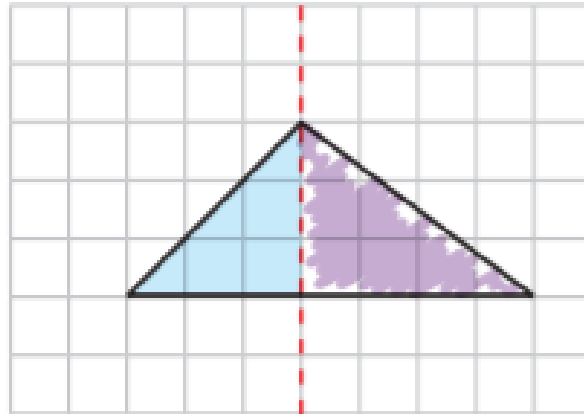


Lines of symmetry – draw the whole

- 1 Each diagram shows half a shape and the line of symmetry.
Complete each shape.

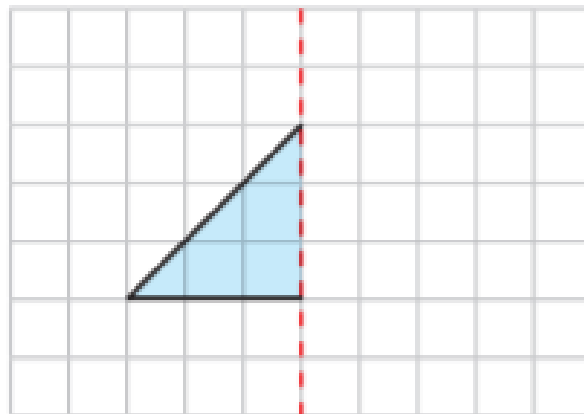


- 2 Rosie has completed this shape.



What has she done wrong?

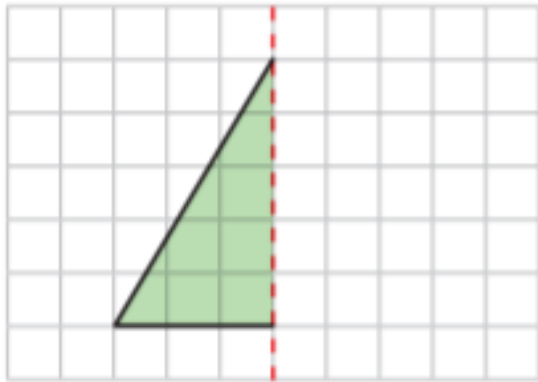
Complete the shape correctly.



3 Each diagram shows half a shape and the line of symmetry.

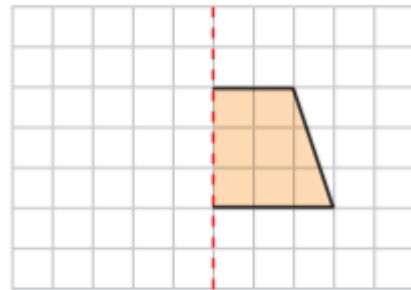
Complete each shape.

a)

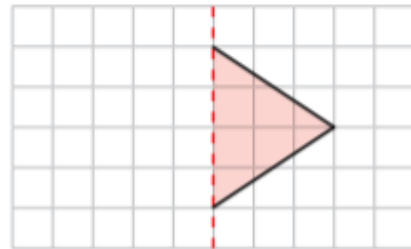


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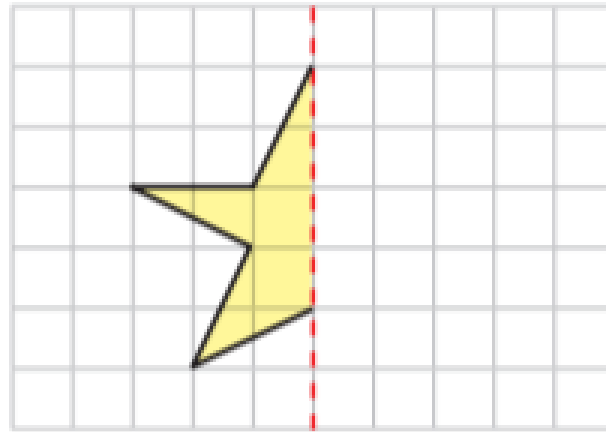
b)



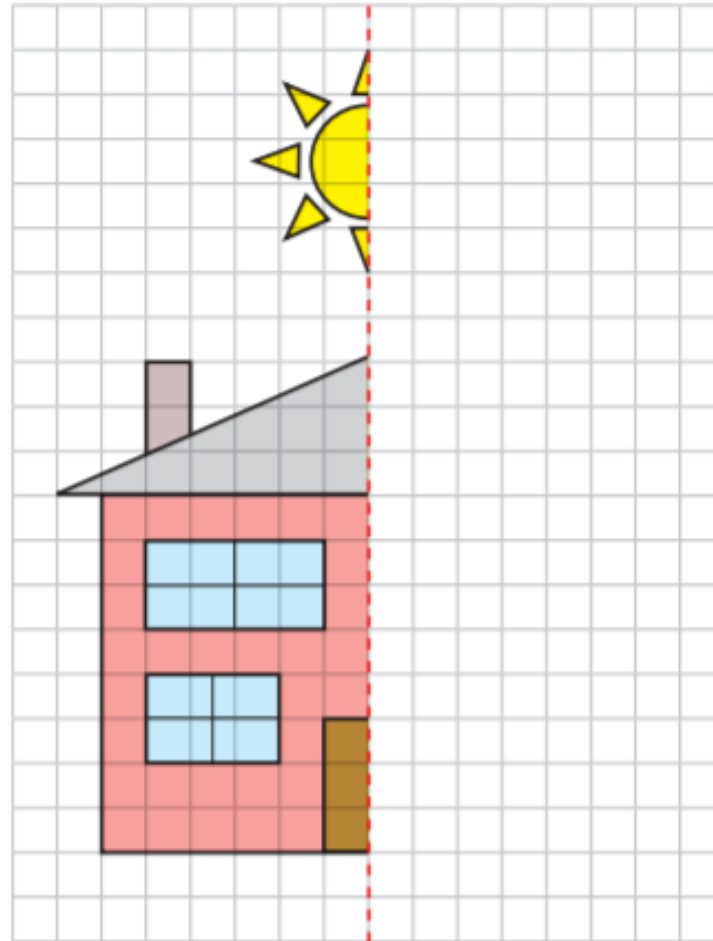
c)



- 4 Here is half a star and its line of symmetry.
Complete the star.



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