

Maths – Tuesday 26th January

Retrieval practice:

Which properties of 2D shapes have we looked at so far?

When drawing a 2D shape, what piece of equipment is really important?

When drawing a 2D shape, where is the best place to start?

Retrieval practice:

Which properties of 2D shapes have we looked at so far?

Sides and vertices.

When drawing a 2D shape, what piece of equipment is really important?

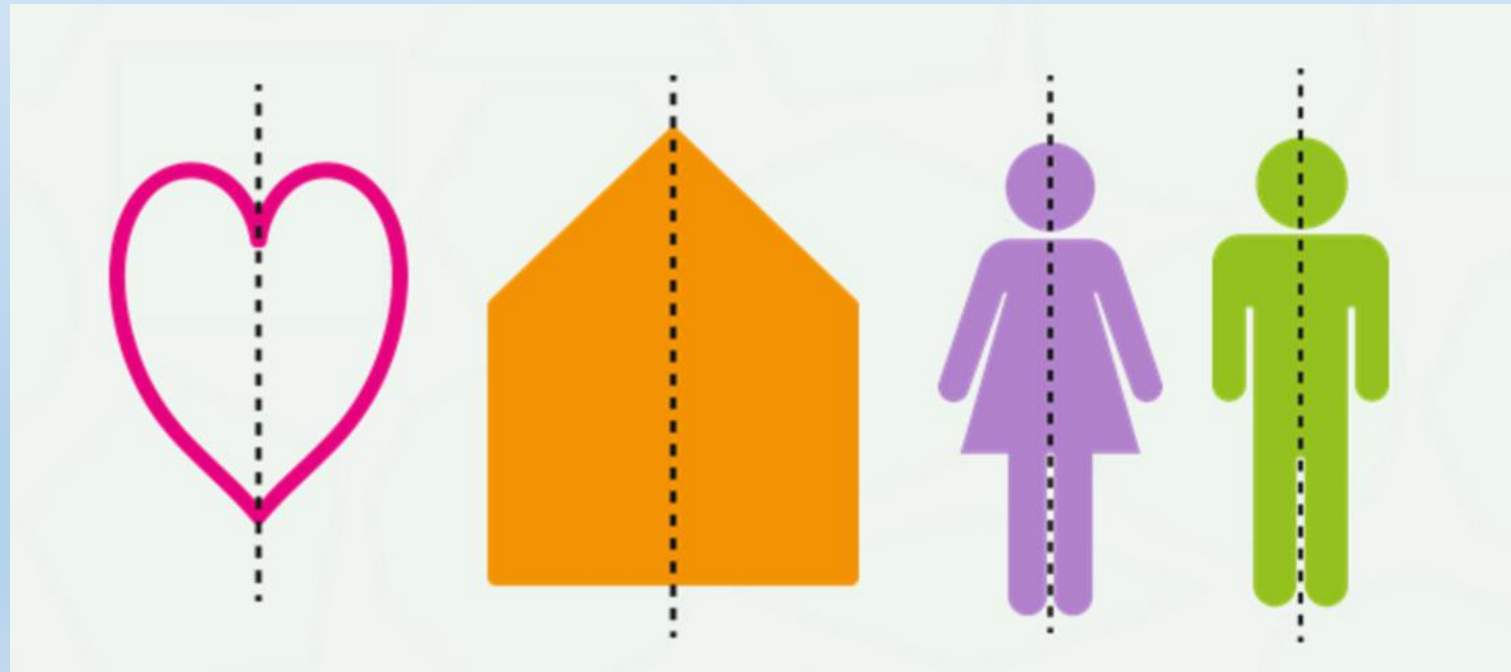
A ruler.

When drawing a 2D shape, where is the best place to start?

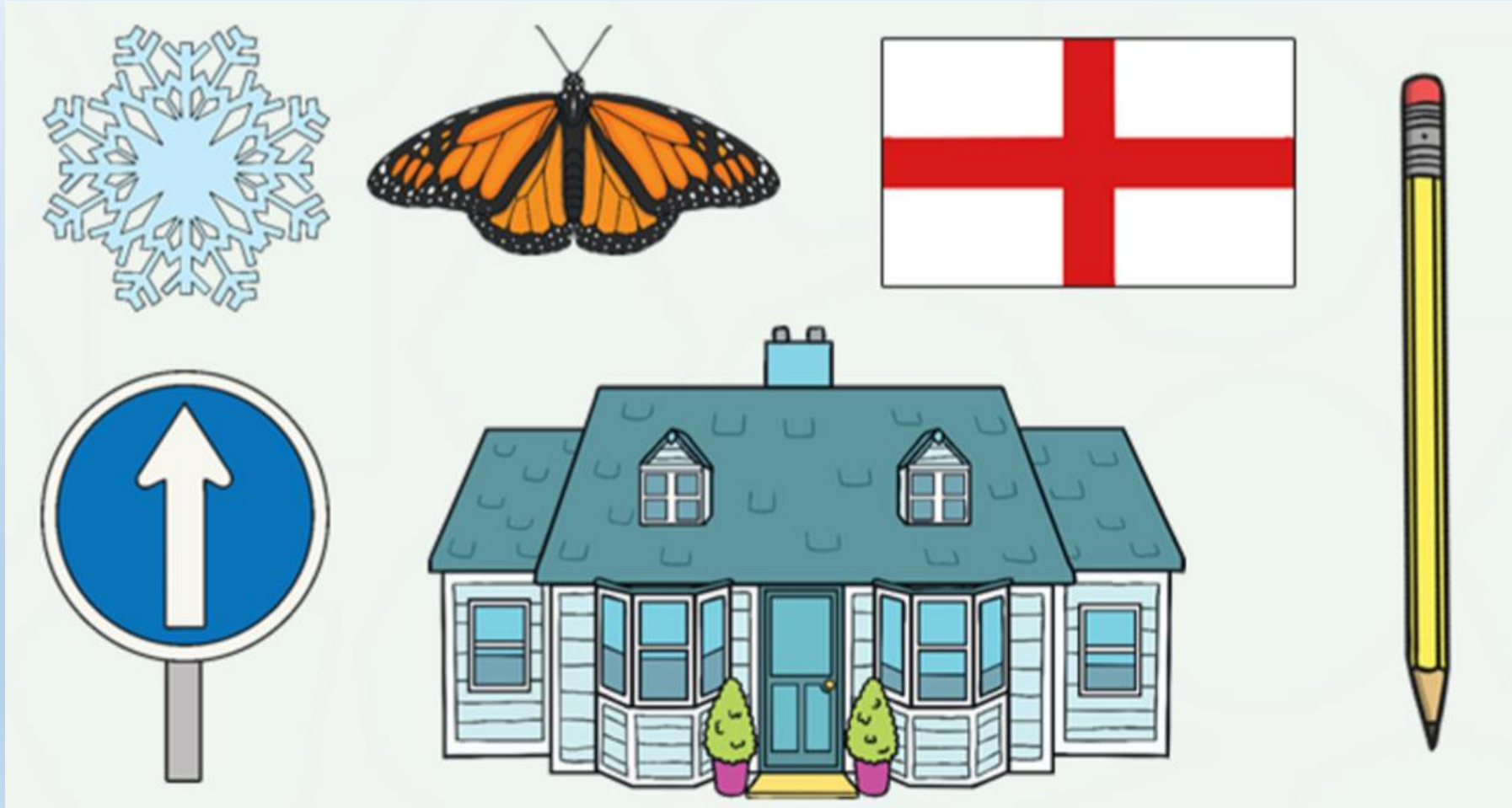
At a vertex.

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.



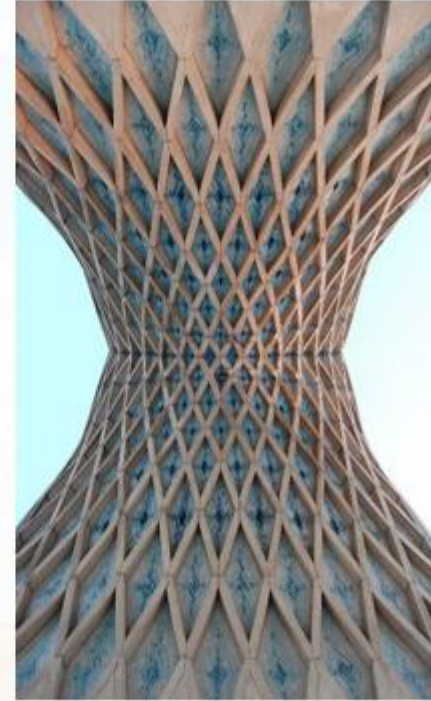
Lots of real life objects are symmetrical.



We can see symmetry in nature:



Symmetry is used in architecture:



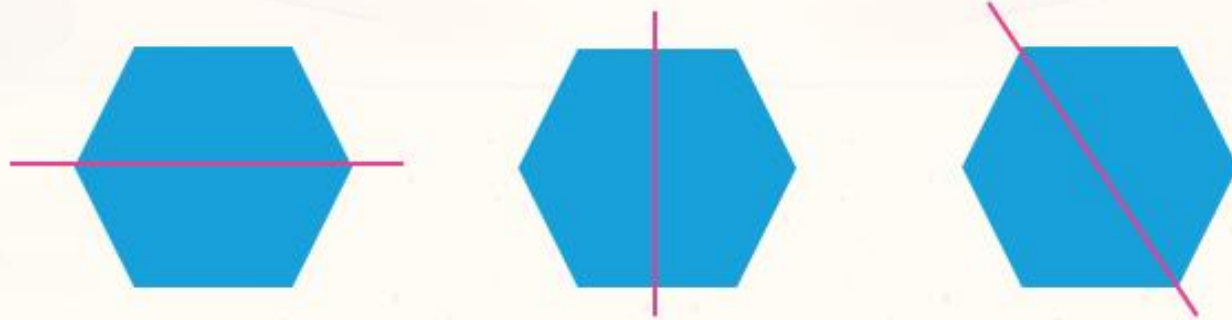


An object, shape or design can be said to be symmetrical if a line can be drawn through the middle, such that the two halves are mirror images of each other.

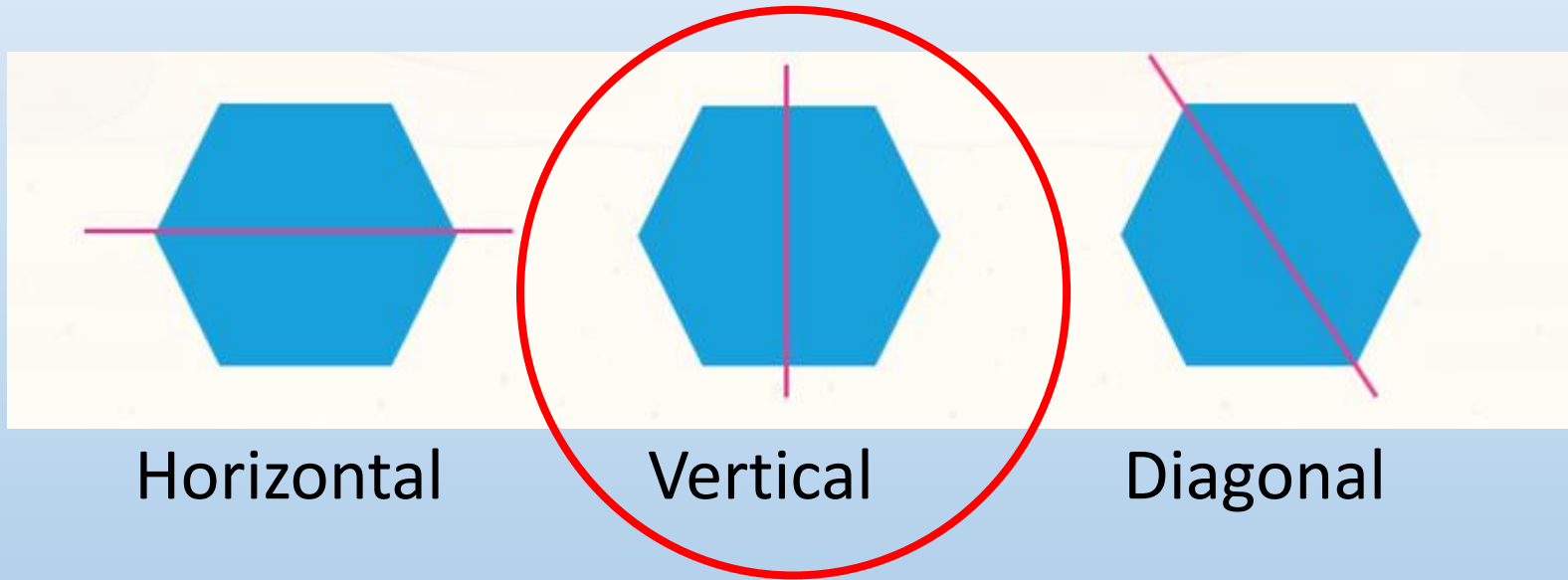
For example, a butterfly has symmetry. If you drew a line down the middle of the butterfly, both sides would be the same.



Lines of symmetry can be horizontal, vertical or diagonal.

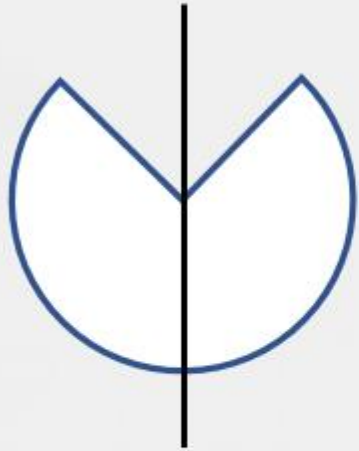


We will be focusing on vertical lines of symmetry.

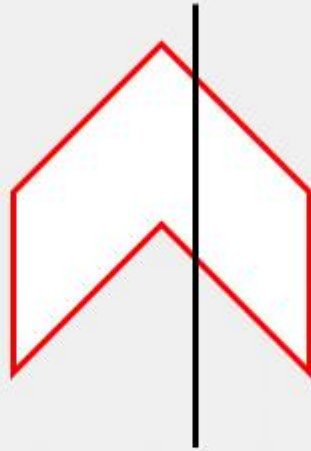


Tick the shapes that have a vertical line of symmetry drawn correctly.

A.



B.

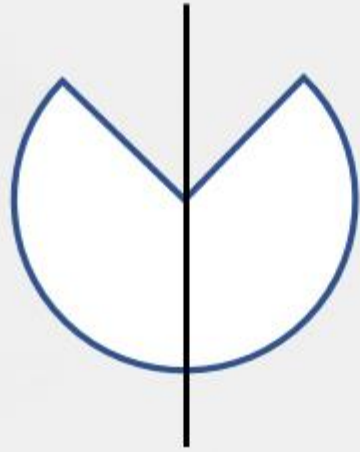


C.



Tick the shapes that have a vertical line of symmetry drawn correctly.

A.



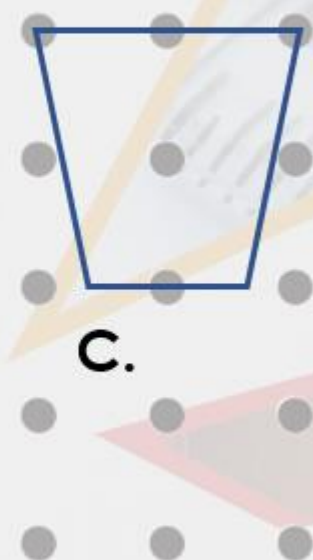
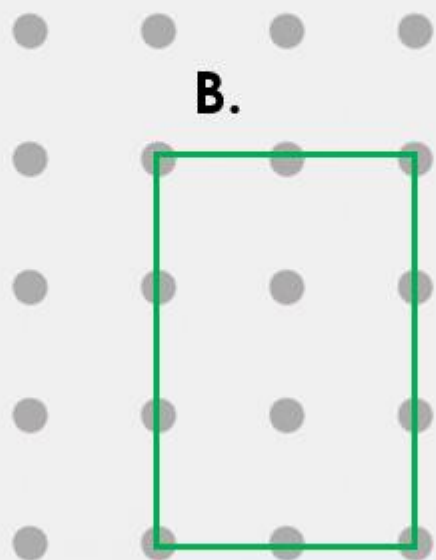
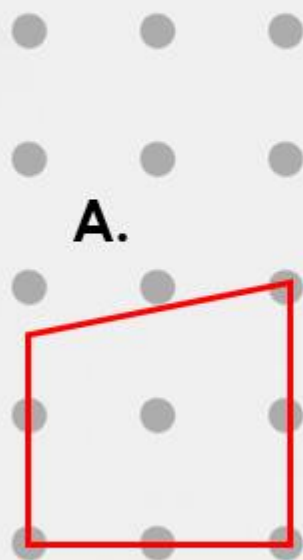
B.



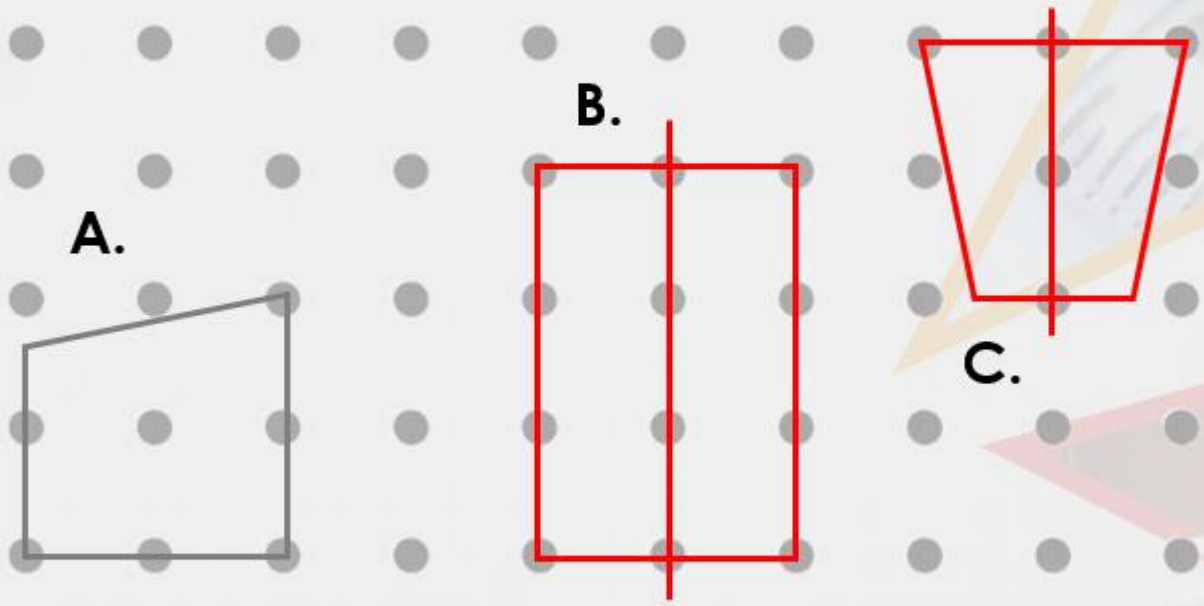
C.



Draw a vertical line of symmetry on all the symmetrical shapes.



Draw a vertical line of symmetry on all the symmetrical shapes.



Draw vertical lines of symmetry on the shapes below to find the odd one out.

A.



B.



C.

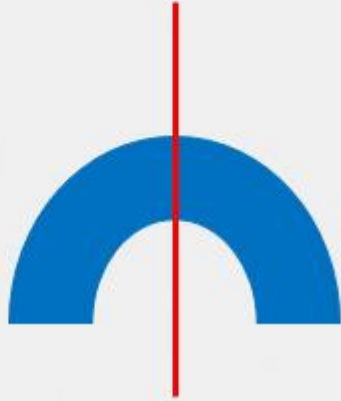


D.



Draw vertical lines of symmetry on the shapes below to find the odd one out.

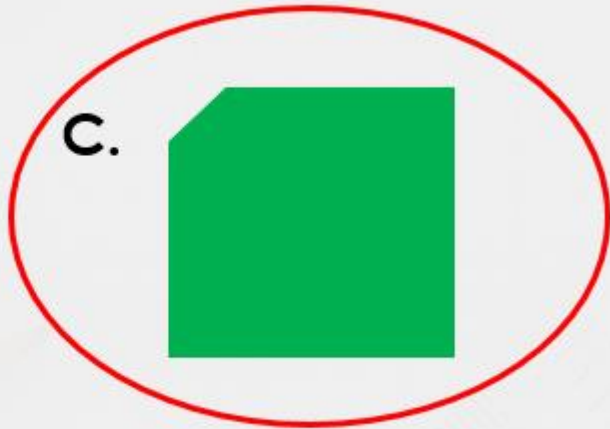
A.



B.



C.



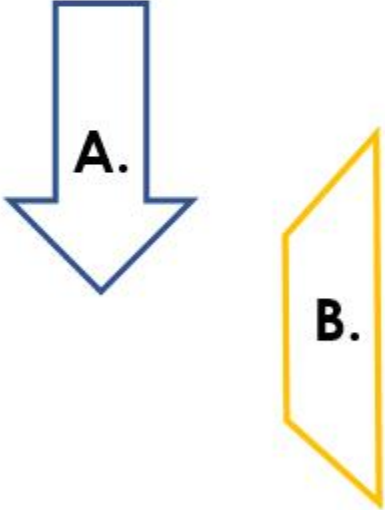
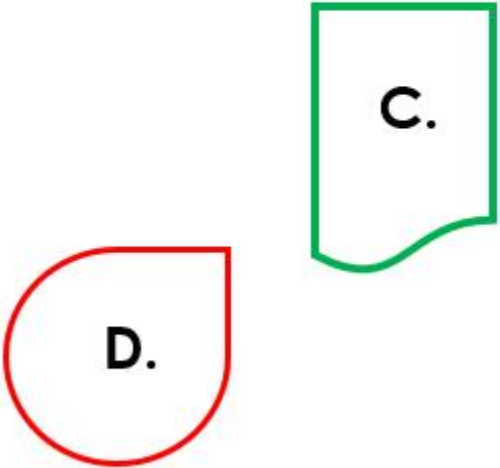
D.



C is the odd one out.

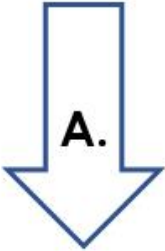



One to discuss

**Mason has completed the table below. Is he correct?
Explain your answer.**

Vertical line of symmetry	No vertical line of symmetry
	

One to discuss

Mason has completed the table below. Is he correct?
Explain your answer.

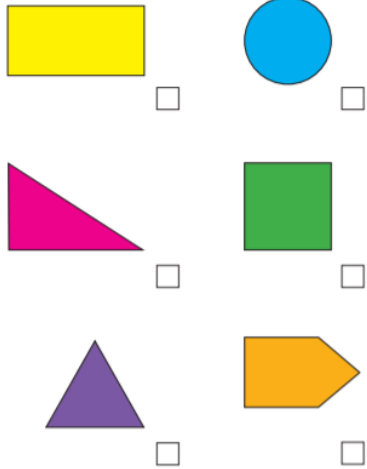
Vertical line of symmetry	No vertical line of symmetry
 <p>A.</p>  <p>B.</p>	 <p>C.</p>  <p>D.</p>

Mason is incorrect because shape B does not have a vertical line of symmetry.

Your task today

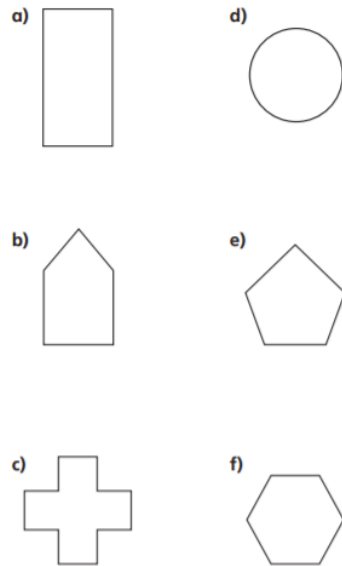
Lines of symmetry

- 1 Tick the shapes that have a vertical line of symmetry.



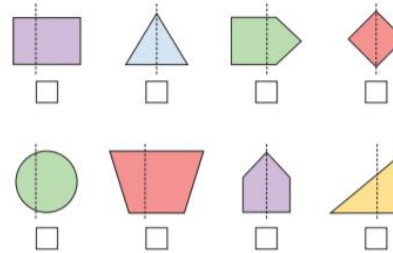
Compare answers with a partner.

- 2 Draw the vertical line of symmetry on each shape.



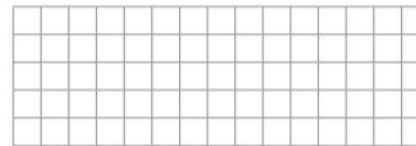
Compare answers with a partner.

- 3 Annie is drawing a vertical line of symmetry on some shapes.
Tick the shapes that have a correct line of symmetry.

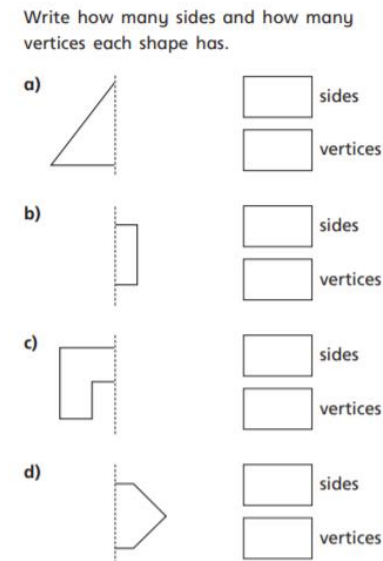


Talk to a partner about any mistakes Annie has made.

- 4 Draw a shape that has 6 sides and a vertical line of symmetry.



- 5 Here are some halves of shapes with their vertical line of symmetry drawn.
Complete the shapes.



Draw your own problem like this for a partner.

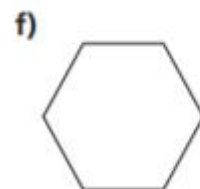
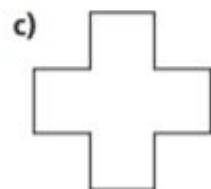
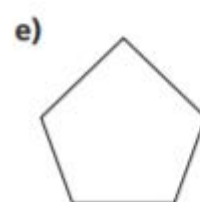
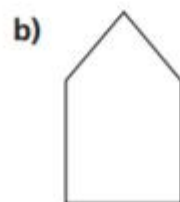
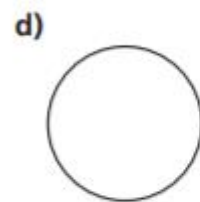
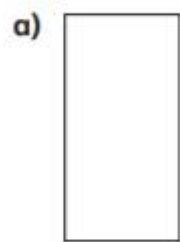
Lines of symmetry

- 1 Tick the shapes that have a vertical line of symmetry.



Compare answers with a partner.

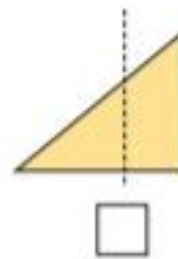
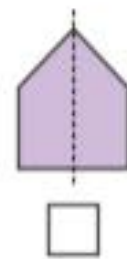
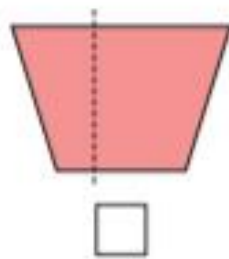
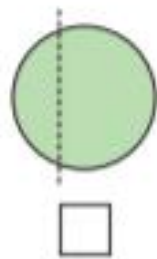
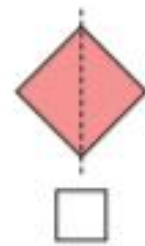
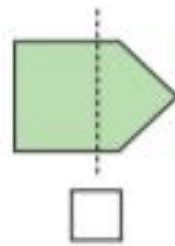
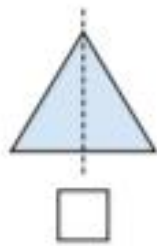
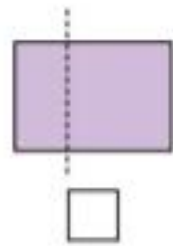
2 Draw the vertical line of symmetry on each shape.



Compare answers with a partner.

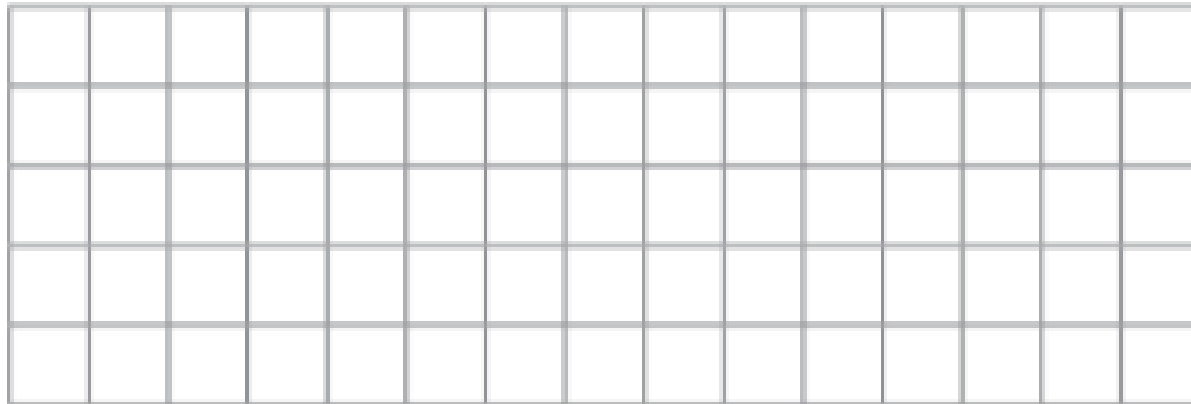
- 3 Annie is drawing a vertical line of symmetry on some shapes.

Tick the shapes that have a correct line of symmetry.



Talk to a partner about any mistakes Annie has made.

- 4 Draw a shape that has 6 sides and a vertical line of symmetry.



5 Here are some halves of shapes with their vertical line of symmetry drawn.


Complete the shapes.

Write how many sides and how many vertices each shape has.

a)  sides
 vertices

b)  sides
 vertices

c)  sides
 vertices

d)  sides
 vertices

Draw your own problem like this for a partner.