

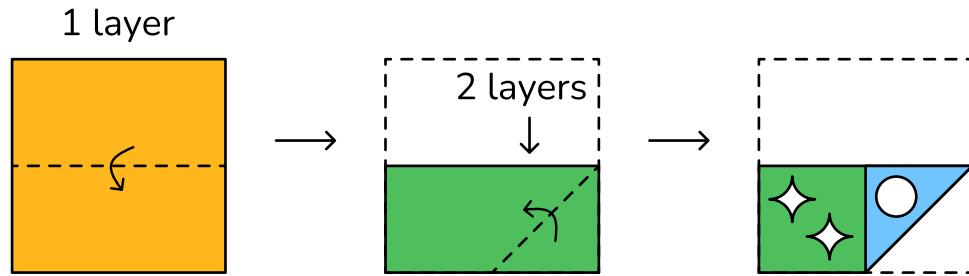


# Following Folds

In **Following Folds** questions, you are shown a piece of paper that has been **folded up** and had **shapes cut out** of it. You have to choose the image that shows what the paper looks like when it is **unfolded**.

1

Look at how the paper has been folded and **count the number of layers**.



2

**Calculate the total number of holes** in the unfolded paper by multiplying the number of shapes by the number of layers they were cut out from.

$$2 \text{ ✨} \times 2 \text{ layers} = 4 \text{ ✨}$$

$$1 \text{ ○} \times 4 \text{ layers} = 4 \text{ ○}$$

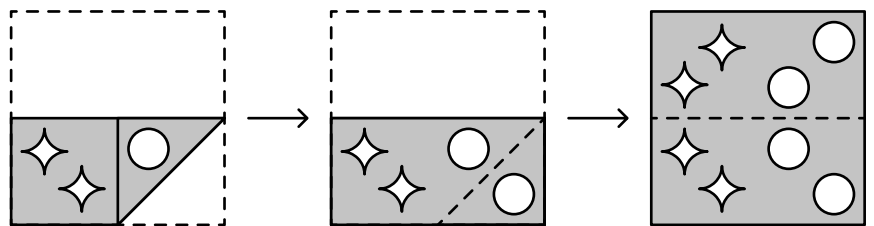
✗

**Rule out** any answer options that have the **incorrect number of holes**!

3

Imagine **unfolding** the paper **one fold at a time**, starting with the **last fold** and working backwards.

Every fold acts as a line of symmetry, so the shapes will be reflected across the folds!



✗

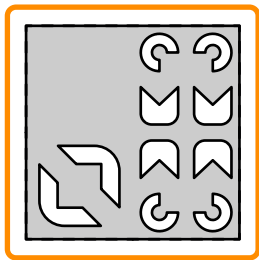
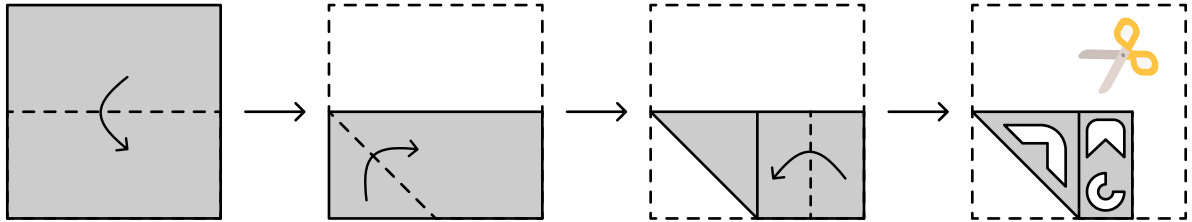
**Rule out** any options where shapes are in the **wrong position** or facing the **wrong way**.

You should be left with one option that has the **correct number of holes** where all of the shapes are in the correct **position** and **orientation**!

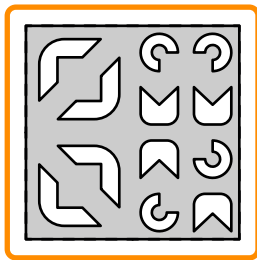


# Example Question

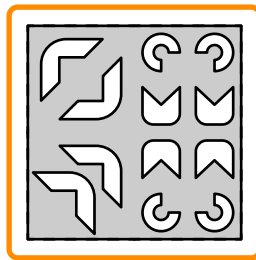
Which image shows how the paper would look unfolded?



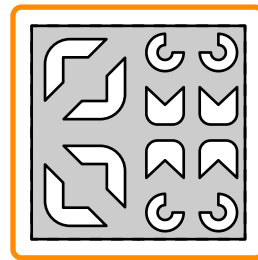
A



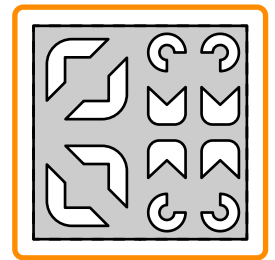
B



C



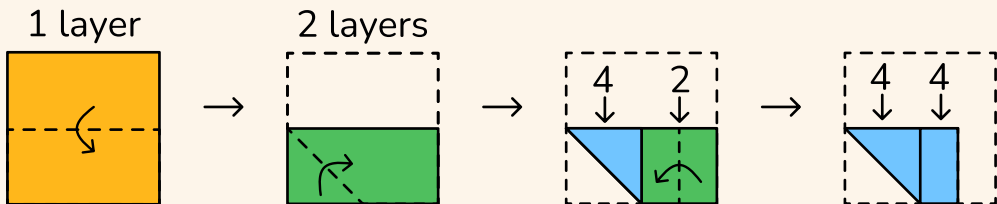
D



E



1

Look at **how many layers** there are in the folded paper.




2

**Multiply** the number of shapes by the number of layers.

There should be **four** of each shape   on the unfolded paper.

X

**We can rule out...**

- A because there is only two of 


3

Imagine **unfolding** the paper and **rule out** options with each fold.

**Final fold:**

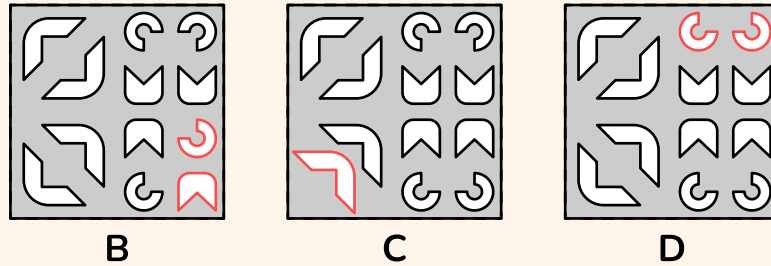
- The shapes in the bottom-right of **B** are in the wrong **position**.

**Second fold:**

- We can rule out **C** because  has been incorrectly **rotated 180°**.

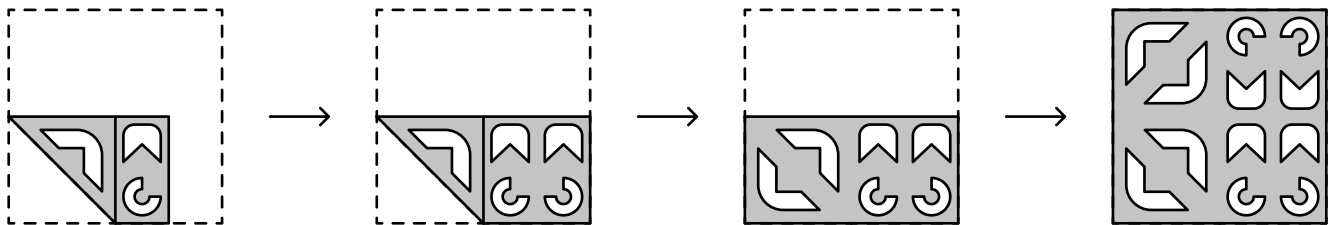
**First fold:**

- D** is incorrect because of the **orientation** of   in the top-right corner.



✓

E is the correct answer!



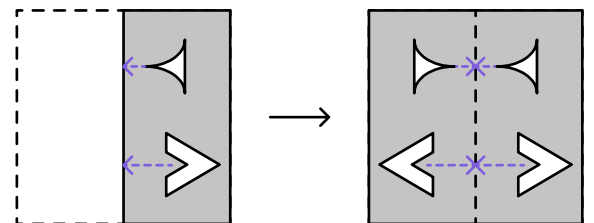
## Top Tips



**Remember!** Imagine each fold in the paper as a **line of symmetry**. How would the shapes look like if they were reflected across a horizontal, vertical or diagonal fold?



Pay attention to the **distance** between a shape and a fold. This will help you figure out where it should be positioned on the unfolded paper.



Look out for **irregular shapes**. Their unusual features can help you figure out the orientation of cut-out shapes.

