ACCESS MATHS

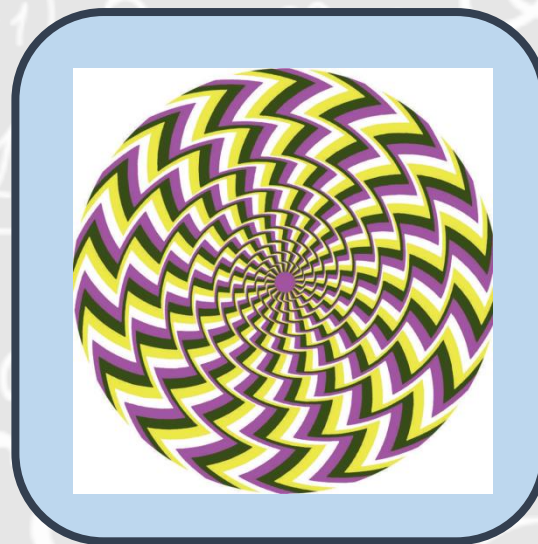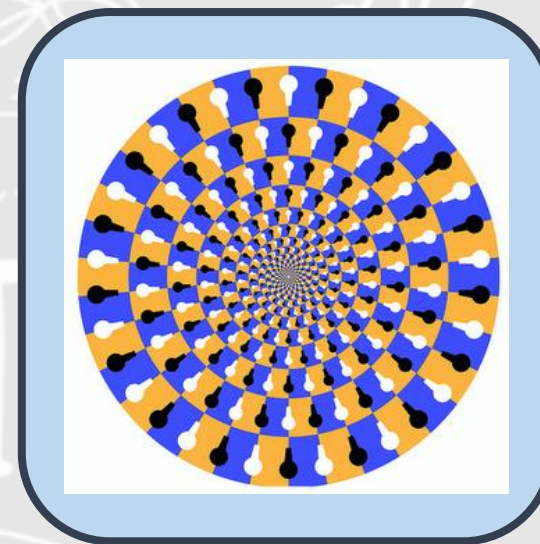# NUMERACY CHALLENGE
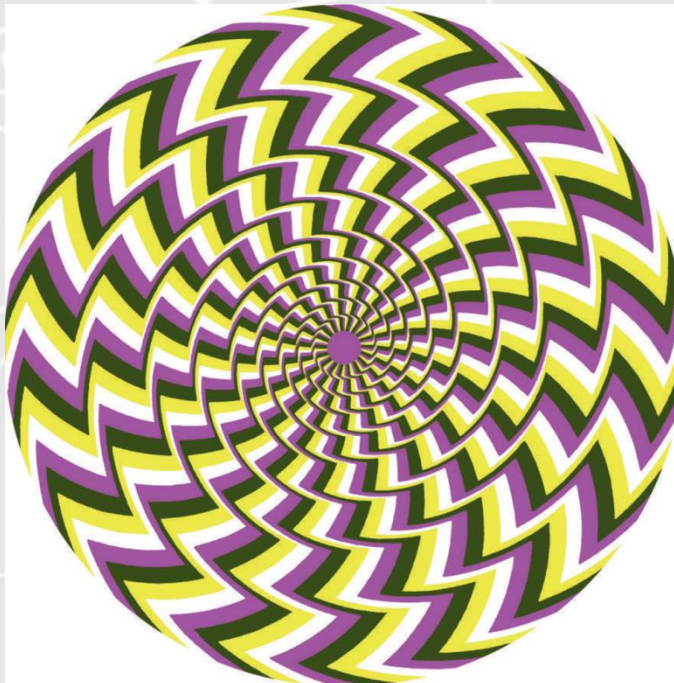
LEVEL 1    LEVEL 2

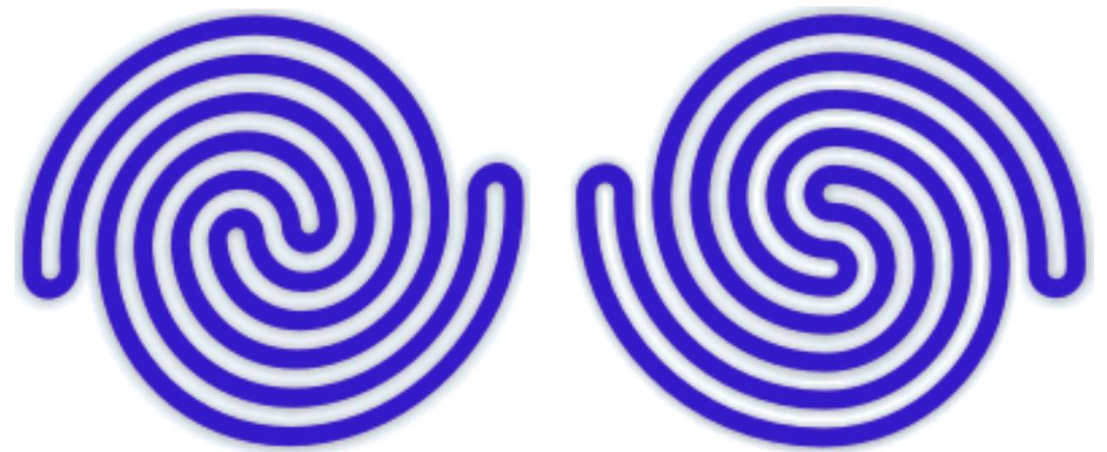# ACCESS MATHS

# NUMERACY CHALLENGE

**Optical Illusion!**

**Does the still picture look like it is moving to you?**



One of these spirals is formed with a single piece of rope that has its ends joined. The other spiral is formed with two separate pieces of rope, each with joined ends.

Can you tell which is which by using only your eyes? No fair tracing the lines with a pencil.



📷 Not really maths this one, but makes you goggle-eyed. Courtesy ThinkFun

**See the next page for a larger version!**

# LEVEL 1

One of these spirals is formed with a single piece of rope that has its ends joined. The other spiral is formed with two separate pieces of rope, each with joined ends.

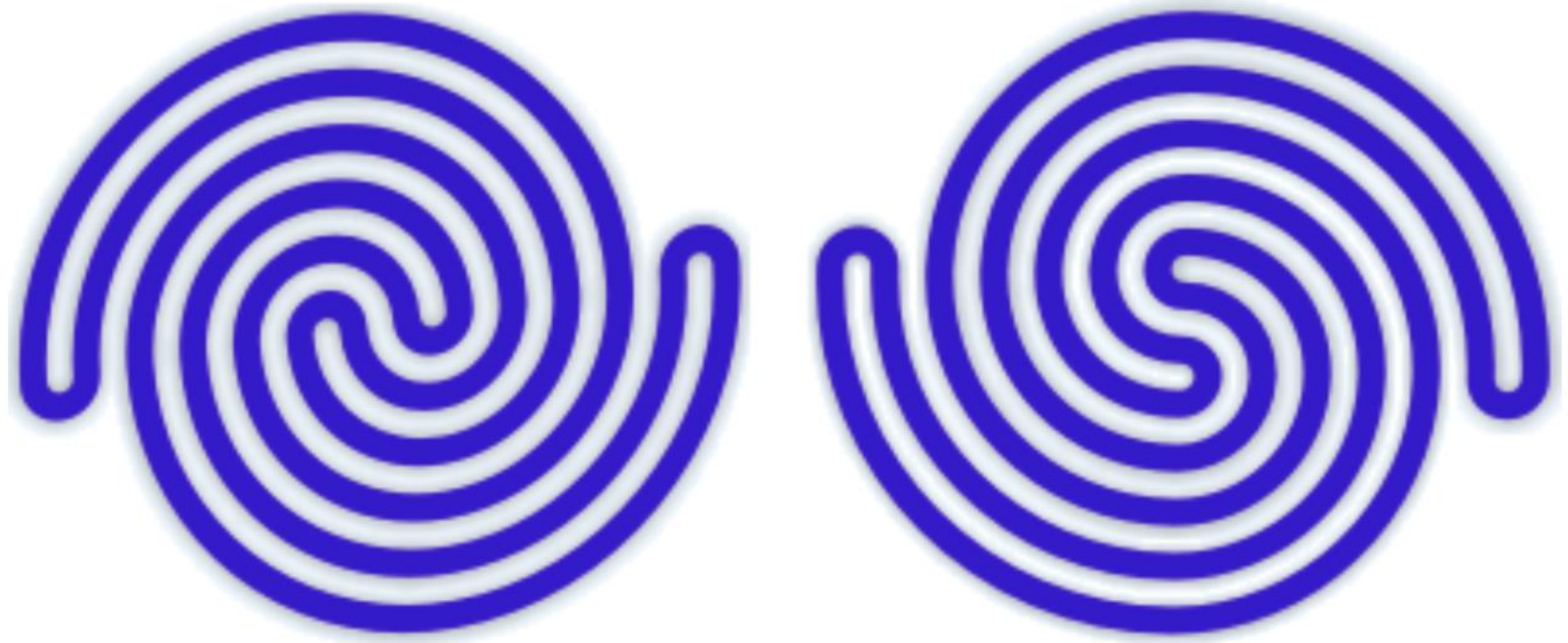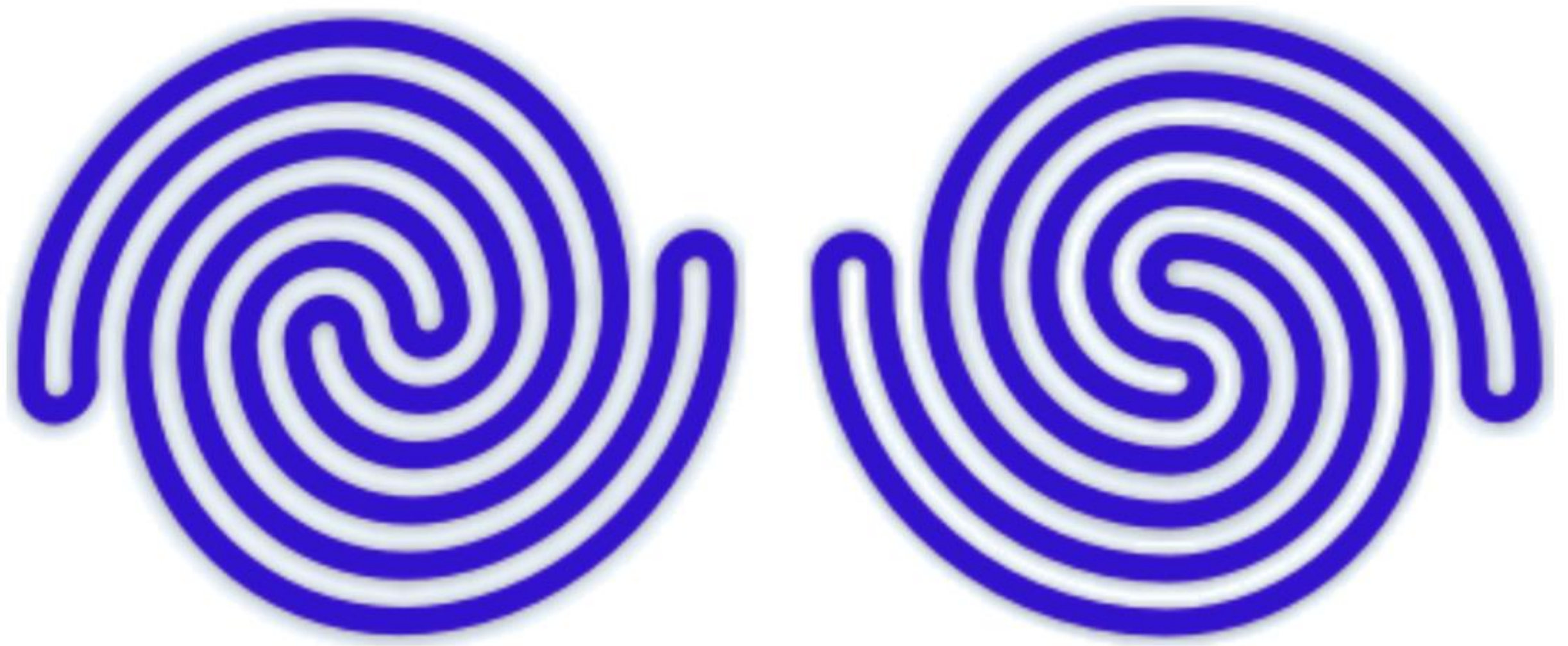Can you tell which is which by using only your eyes? No fair tracing the lines with a pencil.



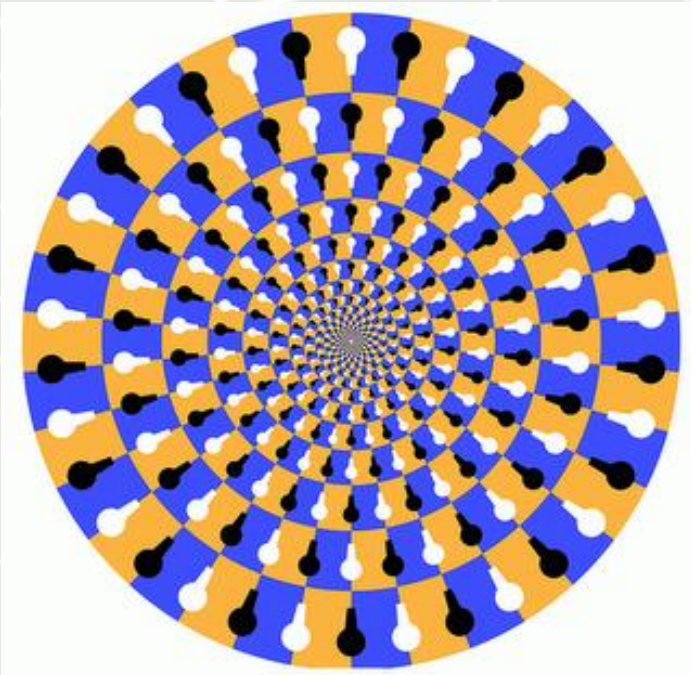📷 Not really maths this one, but makes you goggle-eyed. Courtesy ThinkFun

One of these spirals is formed with a single piece of rope that has its ends joined. The other spiral is formed with two separate pieces of rope, each with joined ends.

Can you tell which is which by using only your eyes? No fair tracing the lines with a pencil.
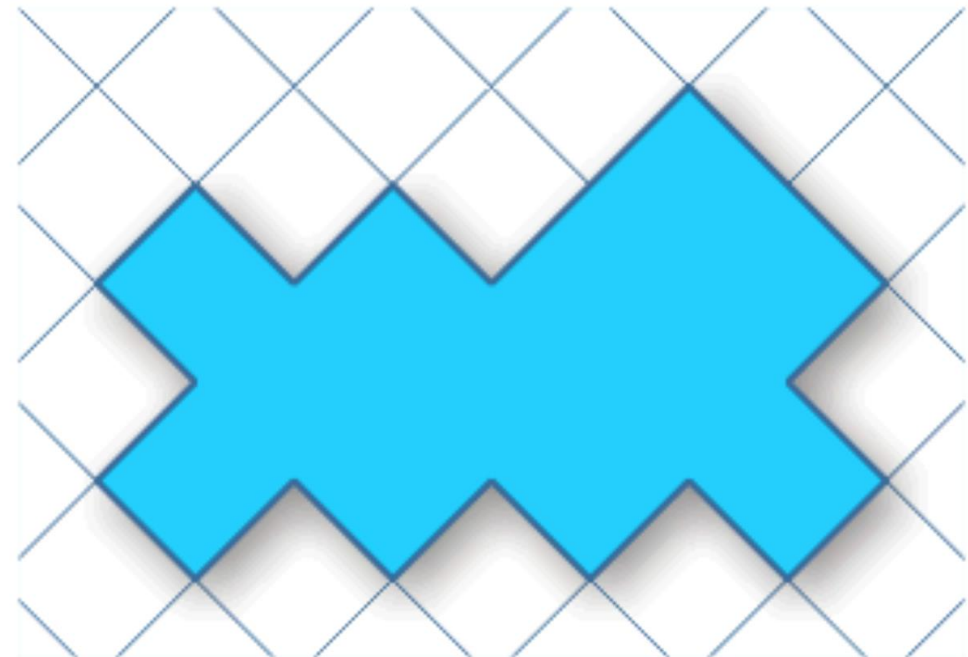
# ACCESS MATHS

# NUMERACY CHALLENGE

## Optical Illusion!

## Does the still picture look like it is moving to you?



You are to make one cut (or draw one line) - of course it needn't be straight - that will divide the figure into two identical parts.
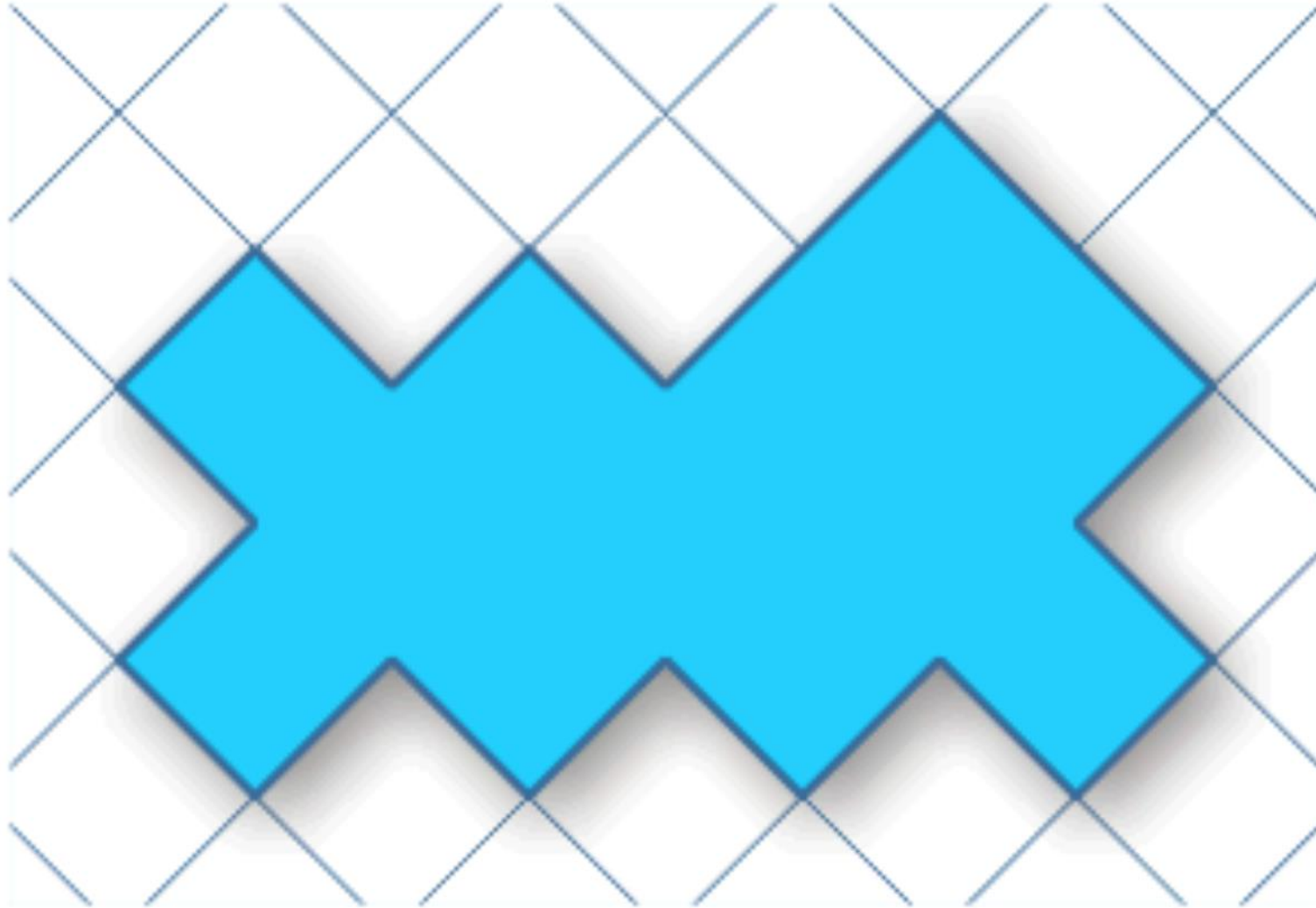


📷 Can you slice the shape to make two identical babies? Courtesy ThinkFun

## See the next page for a larger version!

# LEVEL 2

You are to make one cut (or draw one line) – of course it needn't be straight – that will divide the figure into two identical parts.
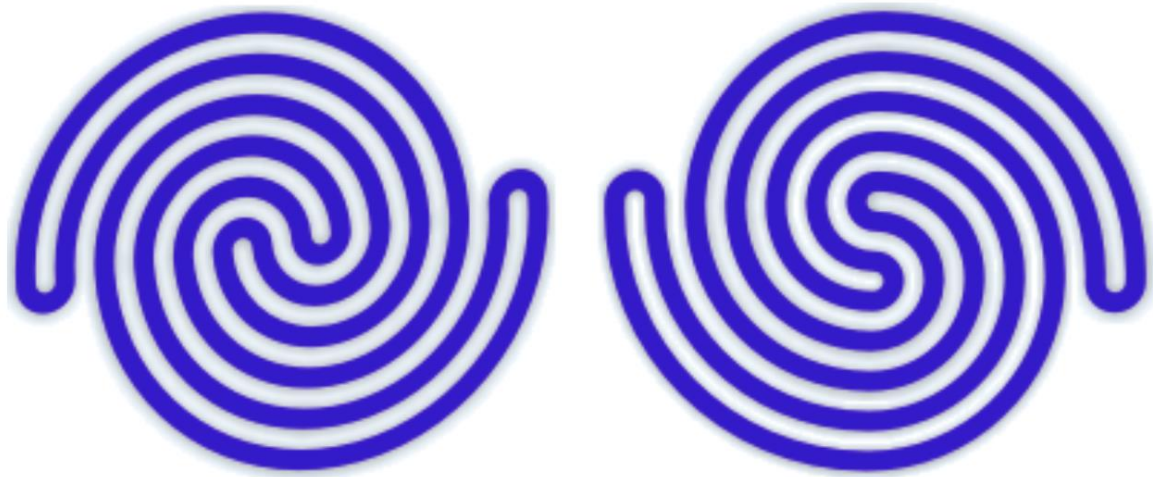


📷 Can you slice the shape to make two identical babies? Courtesy ThinkFun

# NUMERACY CHALLENGE LEVEL 1

One of these spirals is formed with a single piece of rope that has its ends joined. The other spiral is formed with two separate pieces of rope, each with joined ends.

Can you tell which is which by using only your eyes? No fair tracing the lines with a pencil.
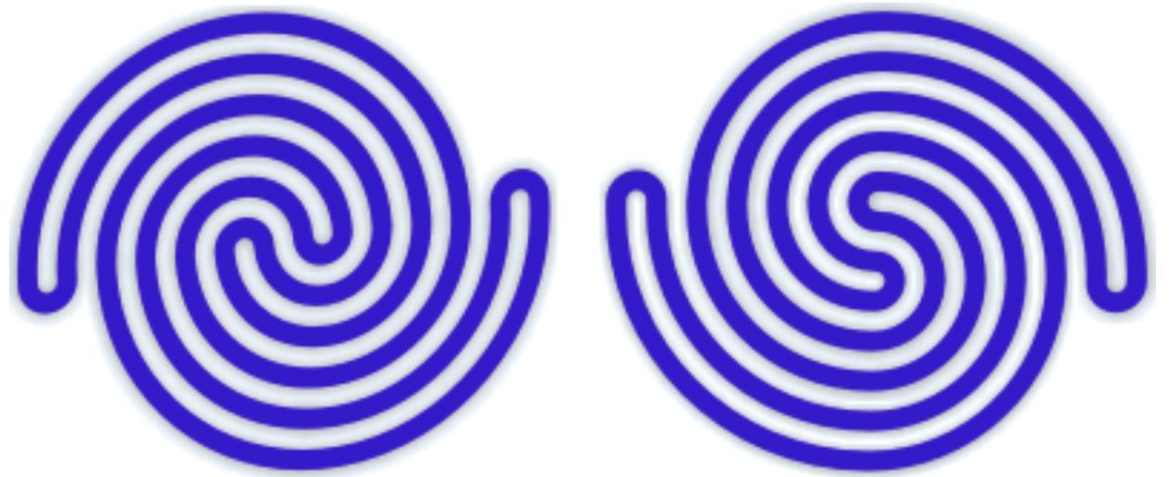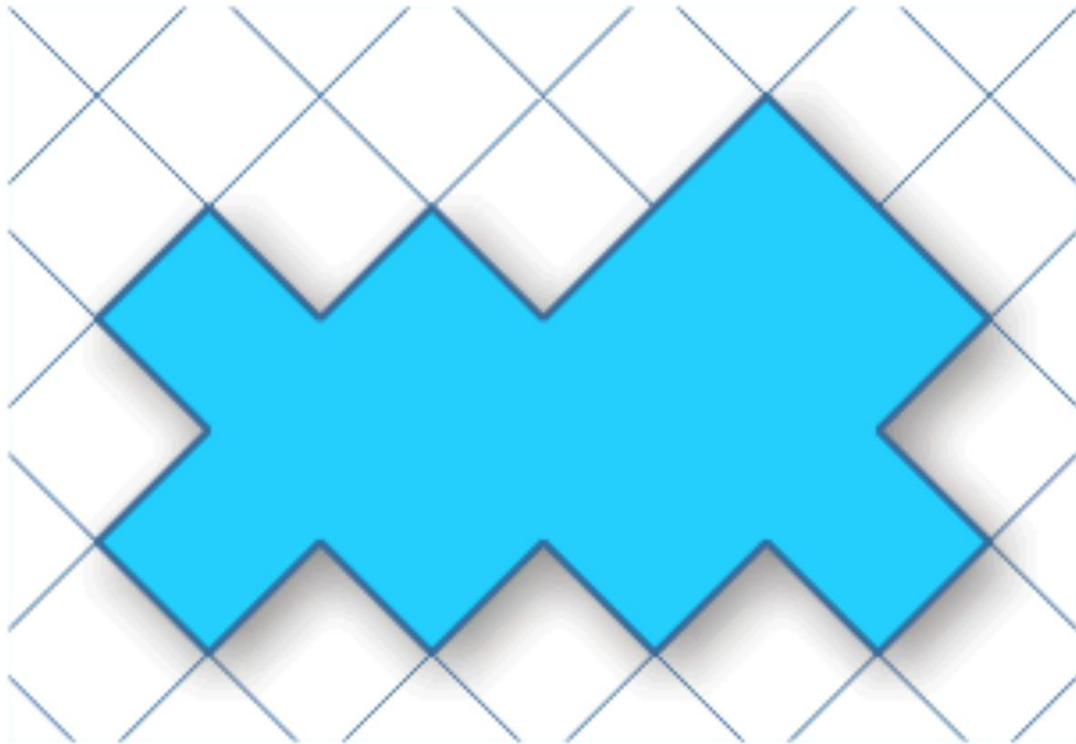


📷 Not really maths this one, but makes you goggle-eyed. Courtesy ThinkFun
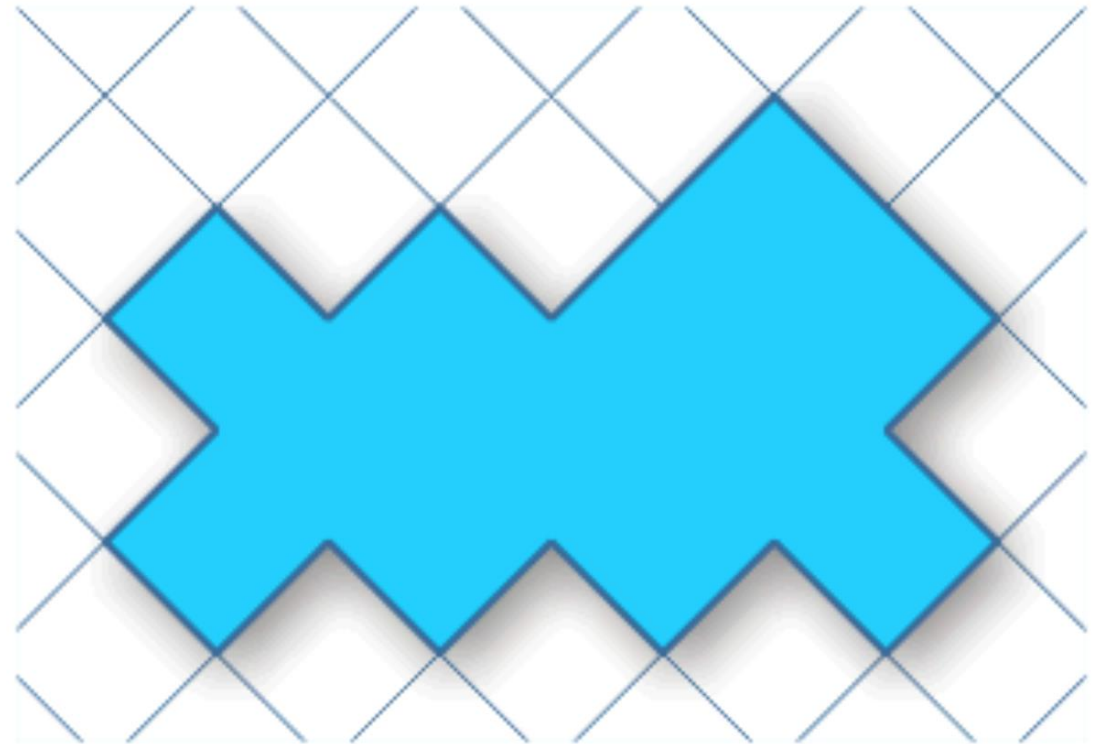
# NUMERACY CHALLENGE LEVEL 2

You are to make one cut (or draw one line) - of course it needn't be straight - that will divide the figure into two identical parts.
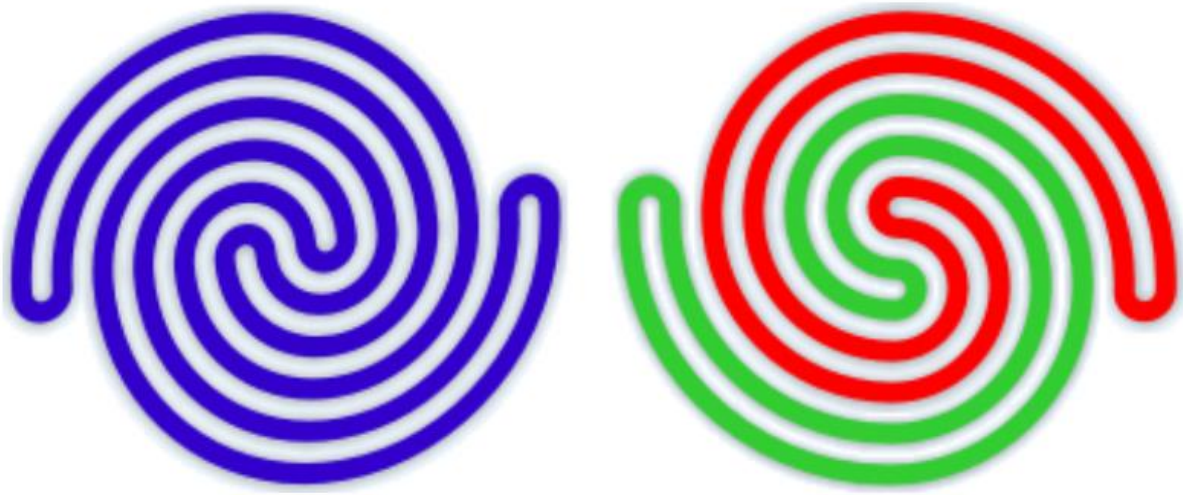


📷 Can you slice the shape to make two identical babies? Courtesy ThinkFun

# LEVEL 1

# LEVEL 2

ACCESS MATHS

The spiral on the left is the single rope

– see answer 8 here:

http://www.theguardian.com/science/alexs-adventures-in-numberland/2014/oct/27/solutions-to-martin-gardners-best-mathematical-puzzles

See solution here:

http://www.theguardian.com/science/alexs-adventures-in-numberland/2014/oct/27/solutions-to-martin-gardners-best-mathematical-puzzles