

# SPHINX SHAPES

# Picture Puzzles

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This Picture Puzzle is based on

... Task 166, Sphinx

Teaching Notes

... [mathematicscentre.com/picturepuzzles/teachingnotes](http://mathematicscentre.com/picturepuzzles/teachingnotes)

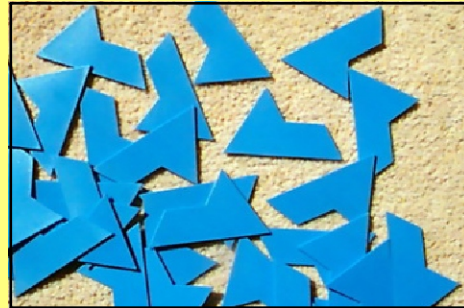
# Picture Puzzles

## To Do

1. Make and record shapes using 2 Sphinxes.
2. Make and record shapes using 3 and 4 Sphinxes.
3. Try some Sphinx shape puzzles.

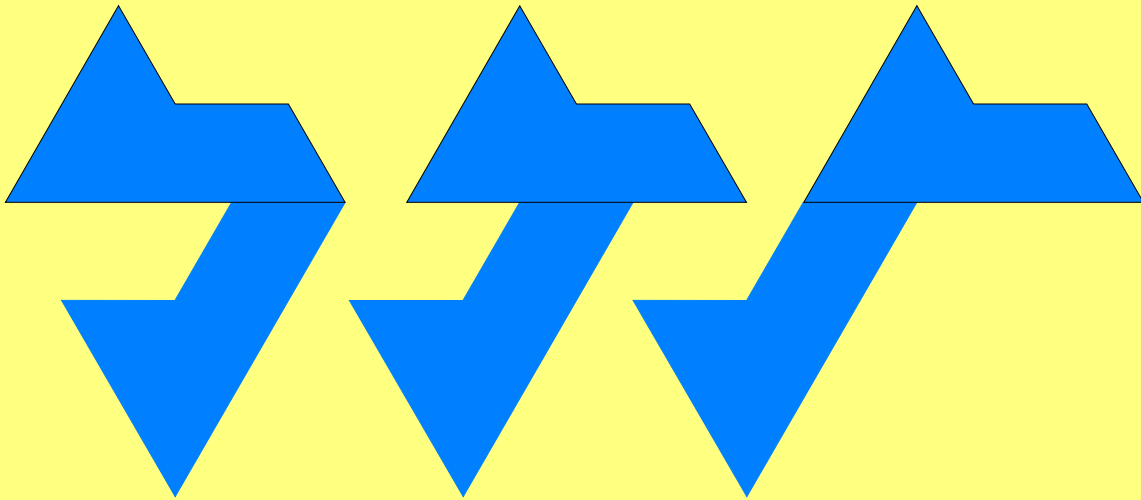
## You Need

- Eight Sphinx shapes
- Triangle graph paper



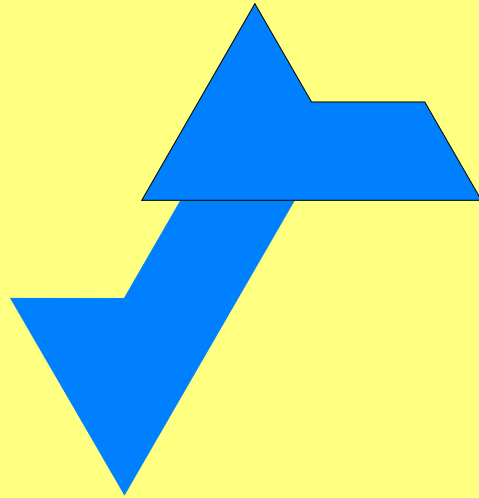
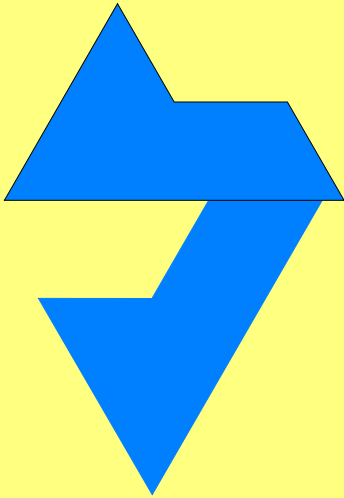
Sphinx shapes from Mathematics Centre

Sphinx shapes join like this...



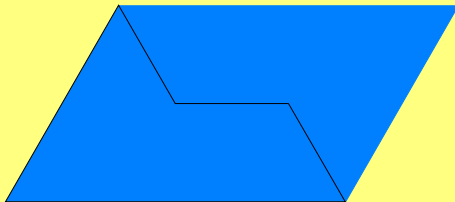
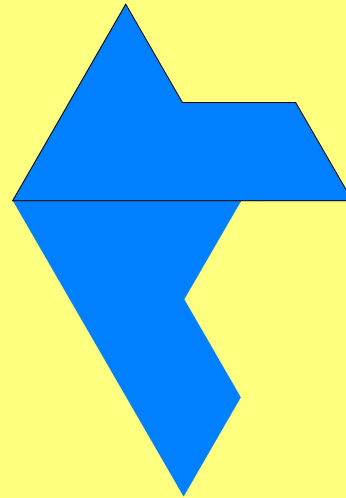
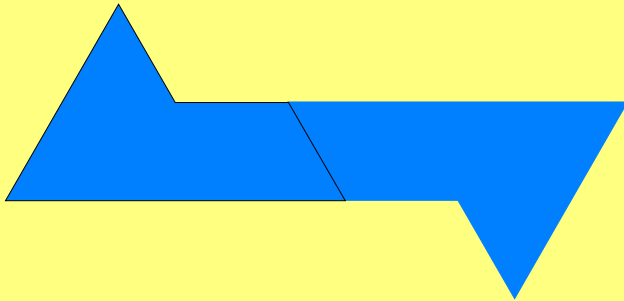
# Picture Puzzles

But not like this...



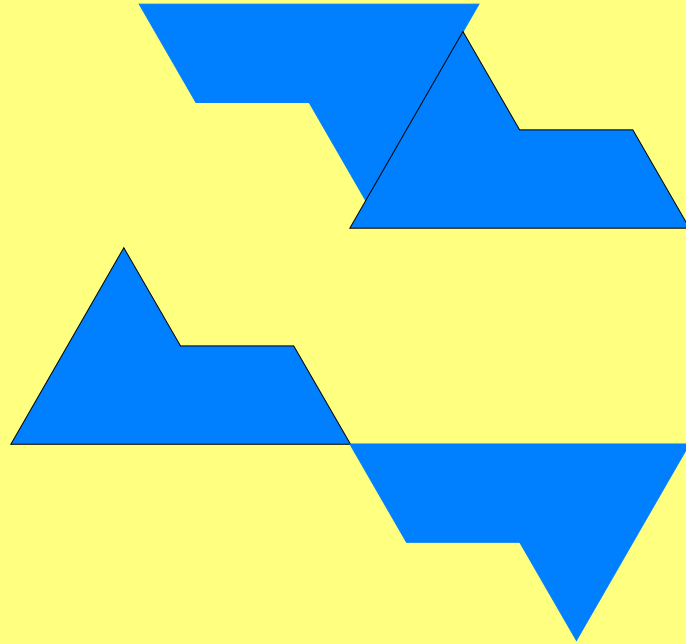
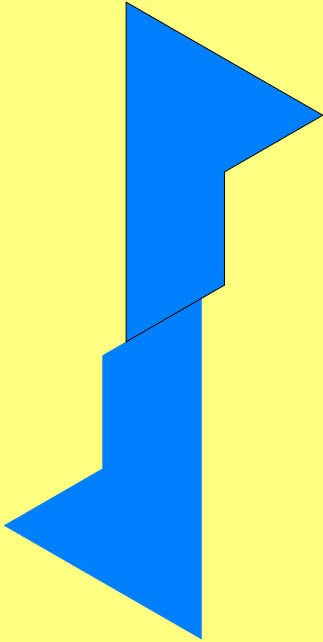
# Picture Puzzles

Sphinx shapes join like this...



# Picture Puzzles

But not like this...



**Make some 2 Sphinx shapes.**

**Choose your three favourite ones.**

**Draw their outline.**

**Show the joins with dotted lines.**



**Make some 3 and 4 Sphinx shapes.**

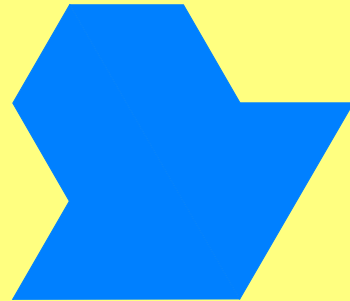
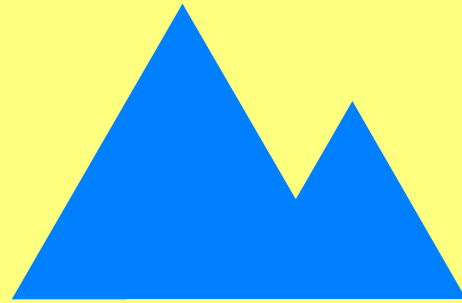
**Choose two of each.**

**Draw their outline.**

**Show the joins with dotted lines.**

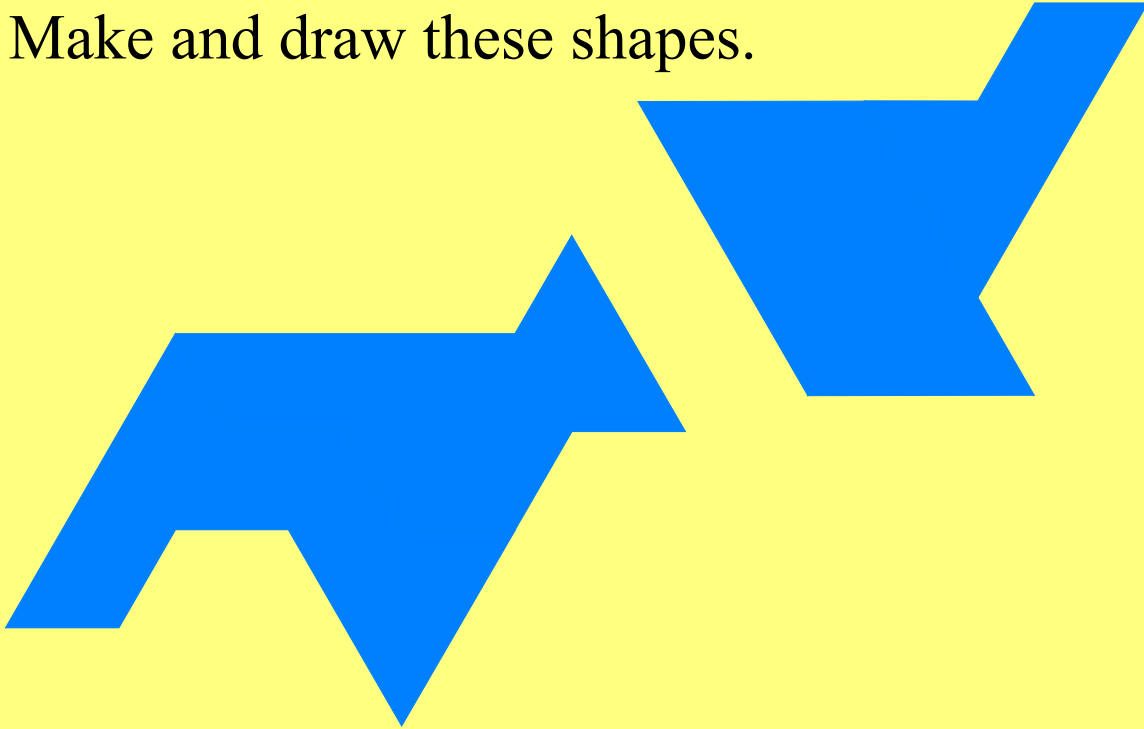
# Picture Puzzles

Make and draw these shapes.



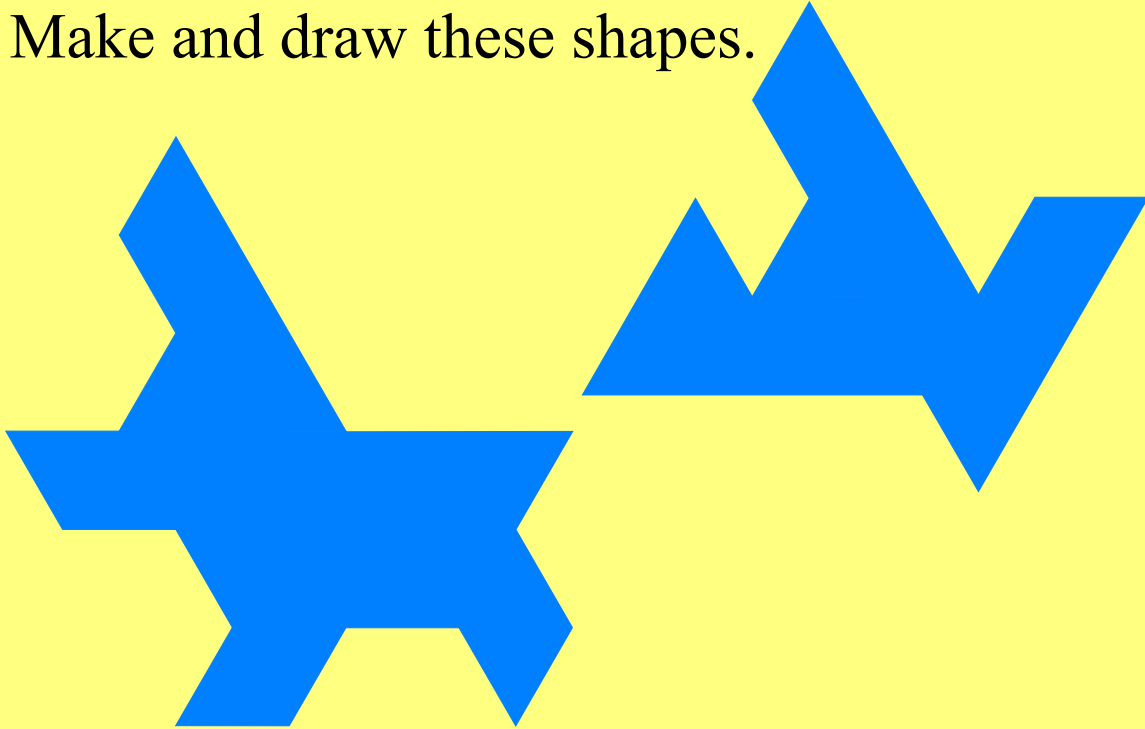
# Picture Puzzles

Make and draw these shapes.



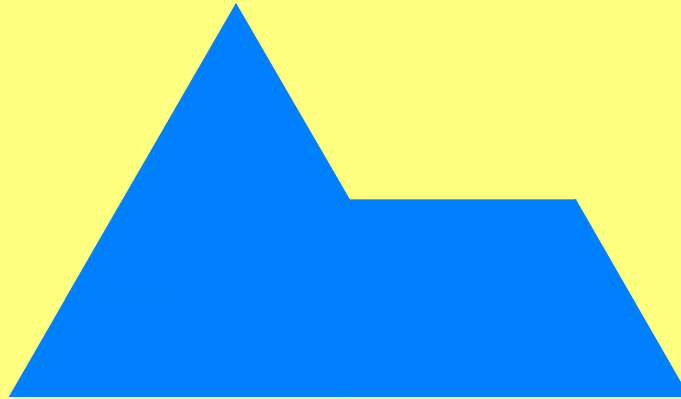
# Picture Puzzles

Make and draw these shapes.



# Picture Puzzles

Make and draw this shape.



**Create a Sphinx shape.**

**Draw its perimeter then mess up the pieces.**

**Challenge someone to make your Sphinx Shape.**

Picture  
Puzzles

more

Picture  
Puzzles

**How many 2 Sphinx shapes are there?**

**How do you know when you have found them all?**



even more

**Investigate tessellating with Sphinx shapes.**

# Picture Puzzles

THE END...

...OR IS IT?

Picture  
Puzzles