Skill - I can draw 2D Shapes

Summer 1 - Week 2
Lesson 1

Rapid Recall

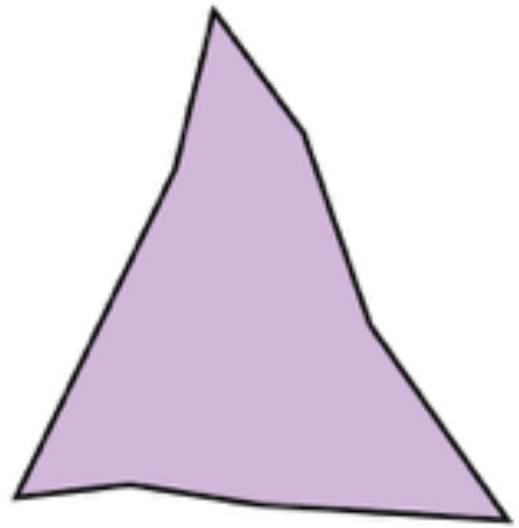
Practise counting through your 5 x Tables in lots of silly voices, for example:

Squeaky
Grumpy
Whispering
Robotic

Repeat this with your 2, 10 and 3 x Tables

Big Question

I have drawn a triangle.

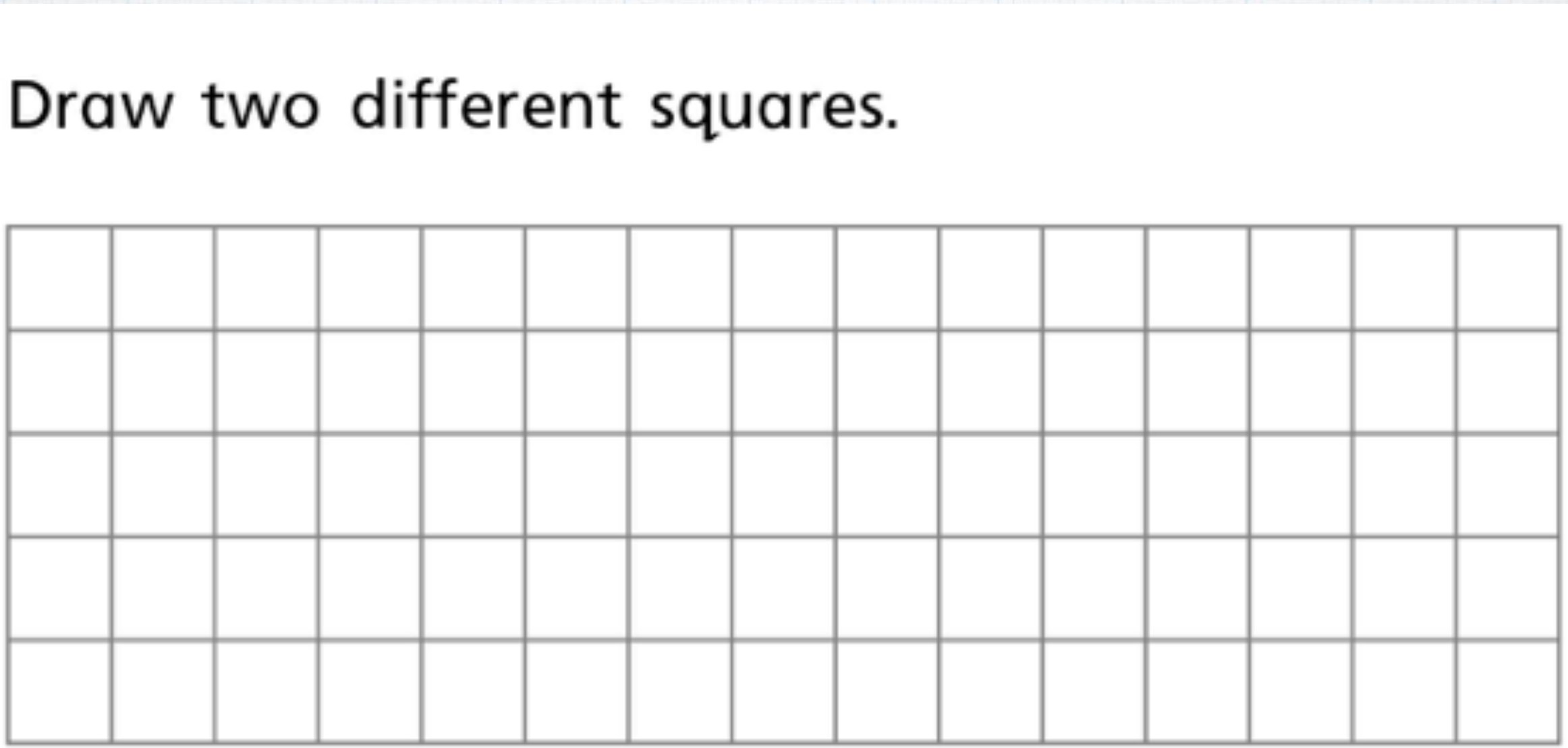


Do you agree with Whitney? _____

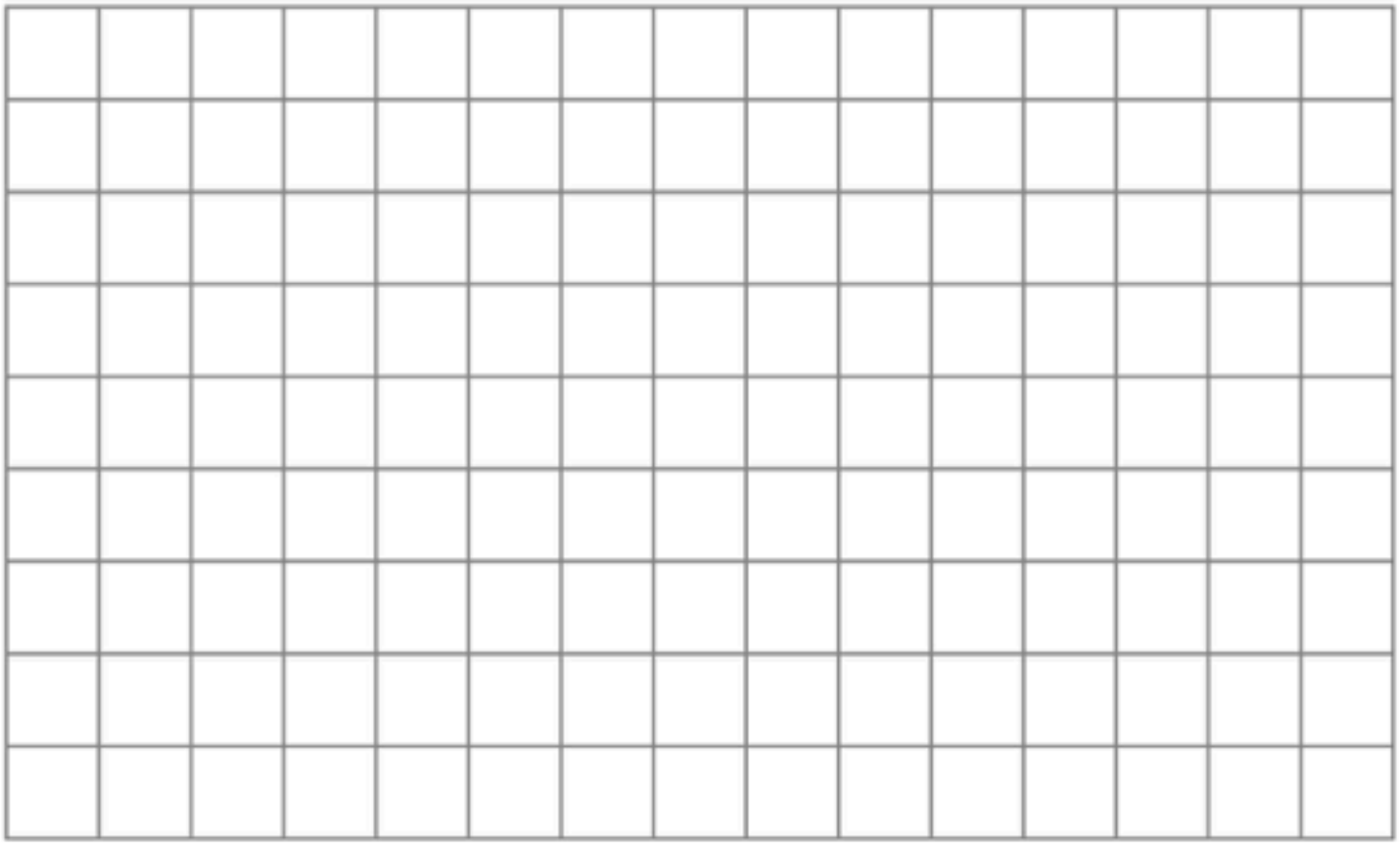
Why?

For the following activities, a squared background is useful, but not essential!
You can draw the shapes on any surface, just take care to use a ruler.

Draw two different squares.

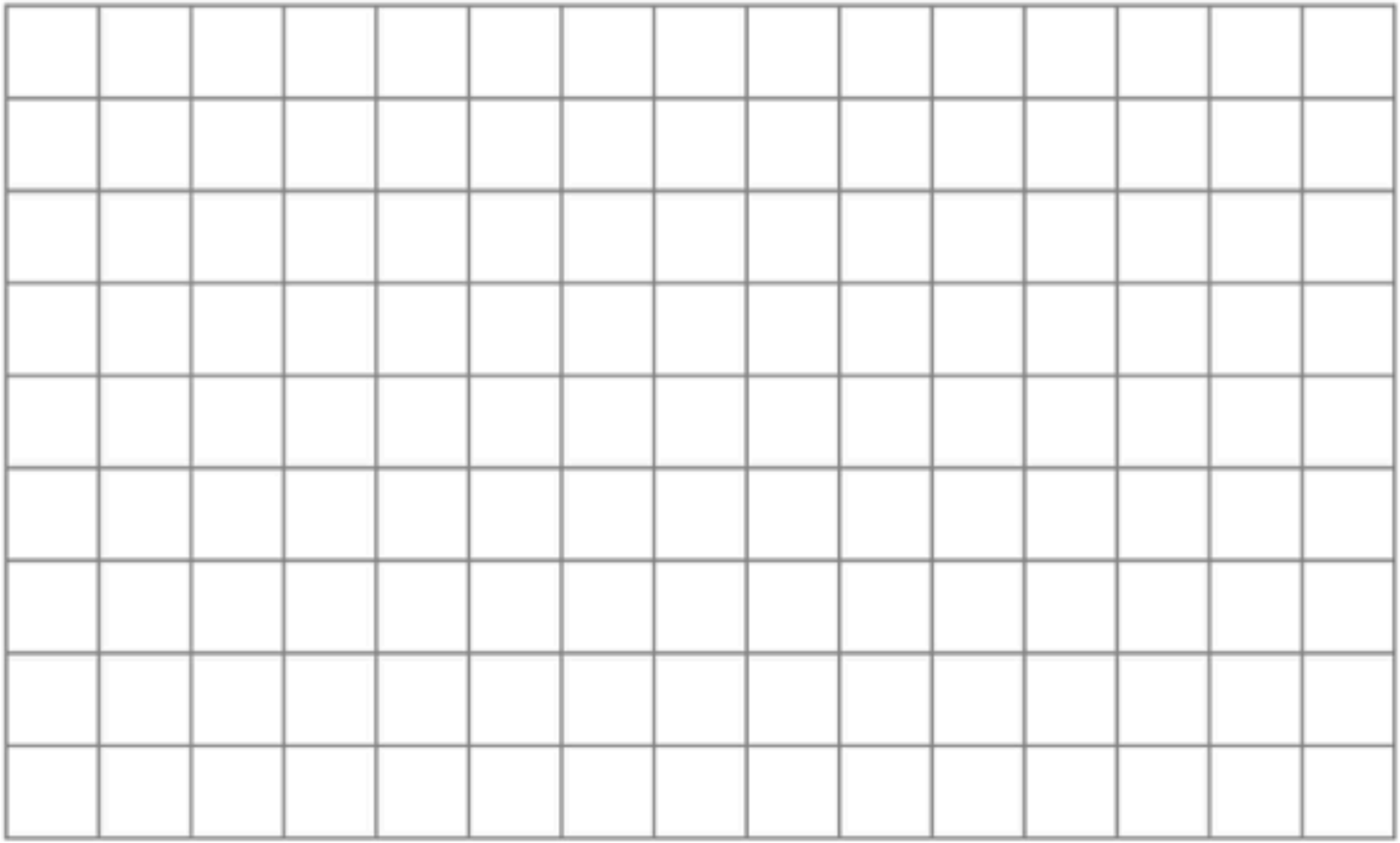


Draw three different rectangles.



Draw three different triangles.

Draw three different hexagons.



Annie is drawing a 2D shape.

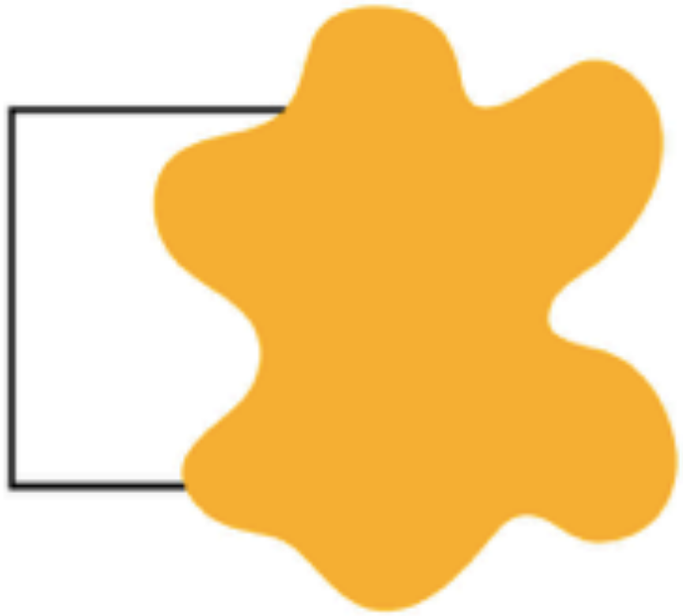
My shape has 5 vertices.

Draw Annie's shape.

Is there more than one answer?

Teddy has drawn a 2D shape.

He has spilt ink on his drawing.

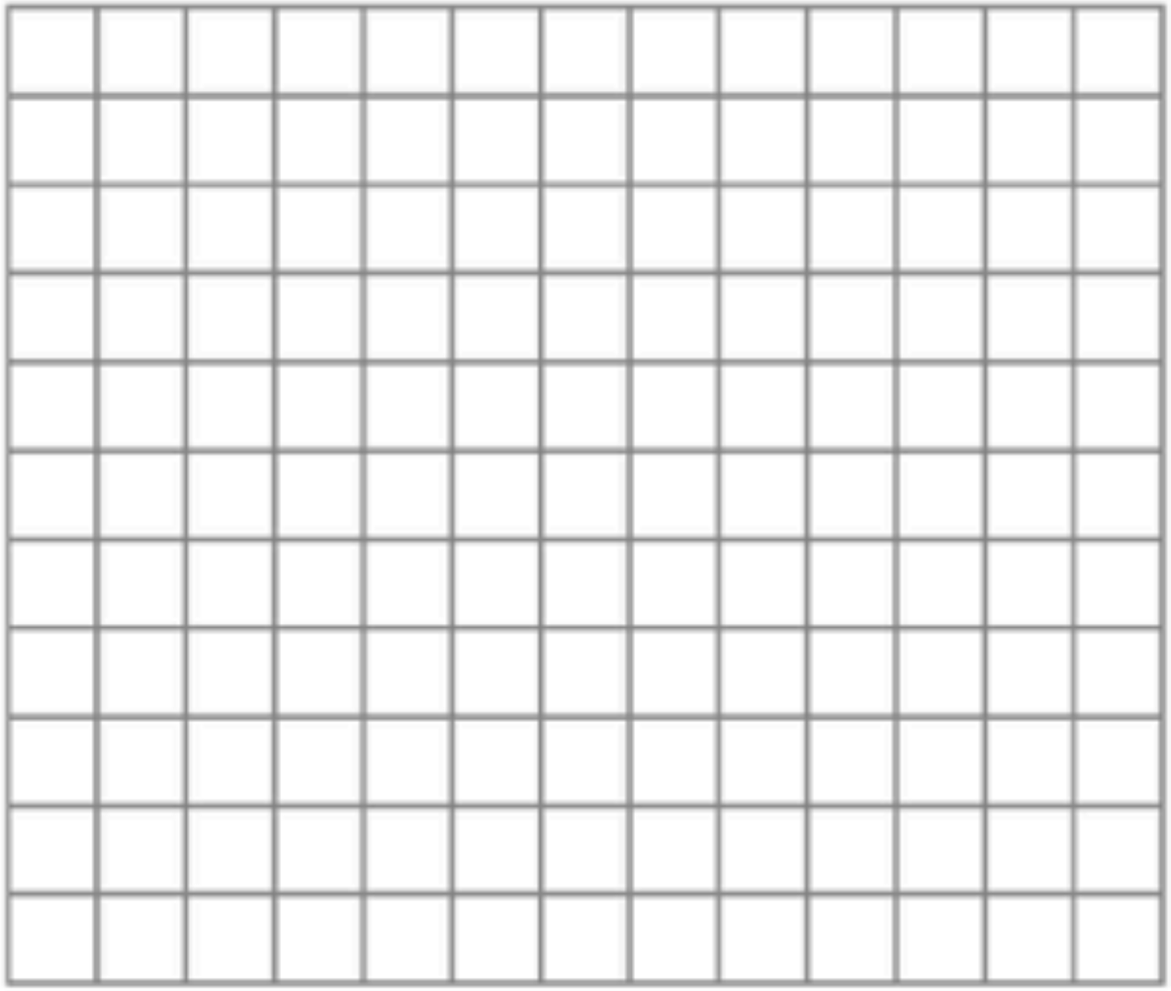


What could Teddy's shape be? _____

What shape can it **not** be? _____

How do you know?

- Draw a rectangle in the centre of the grid.
- Draw a square inside the rectangle.
- Draw a hexagon below the rectangle.
- Draw a triangle above the rectangle.



Make up some instructions like this for a partner.

End of Lesson 1

Summer 1 - Week 2
Lesson 1

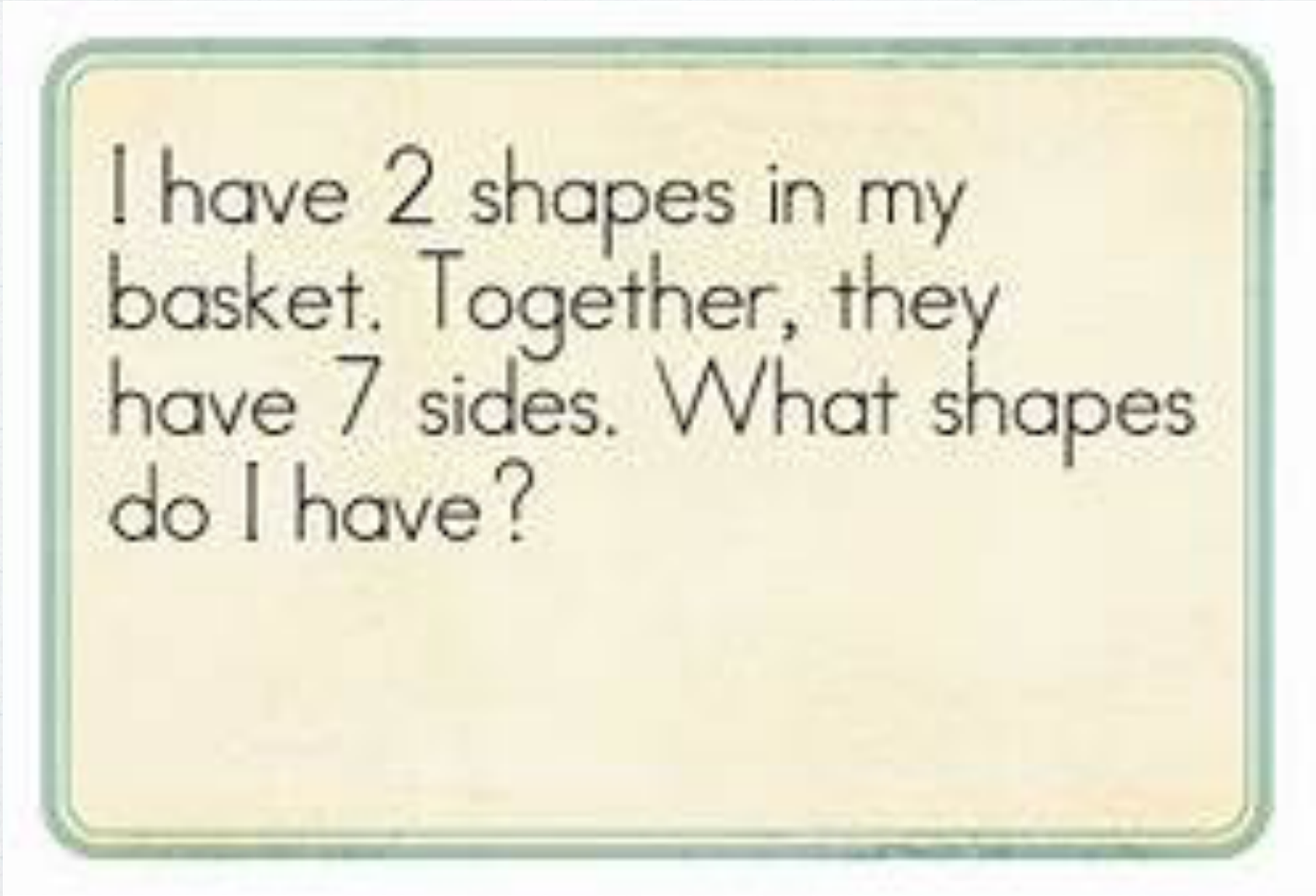
Skill - I can find lines of symmetry in 2D shapes

Summer 1 - Week 1
Lesson 2

Rapid Recall

https://www.youtube.com/watch?v=1OPTfVcoC04

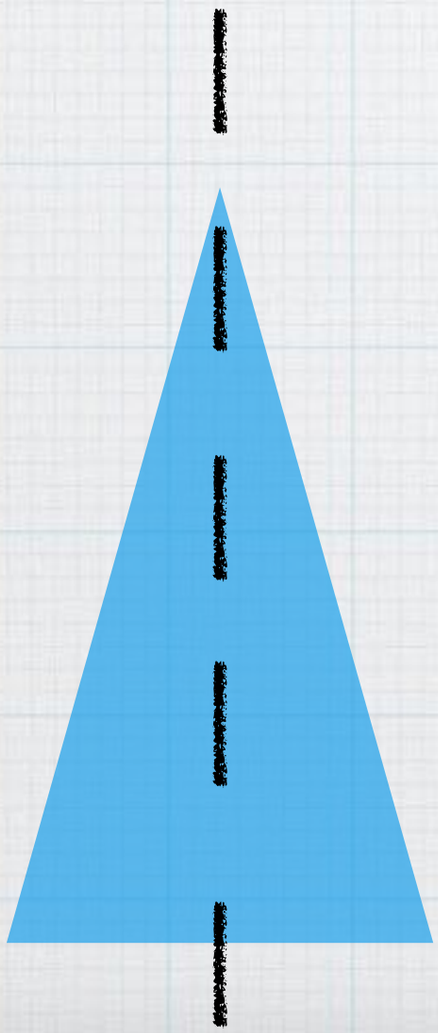
Big Question



How many different answers can you find?

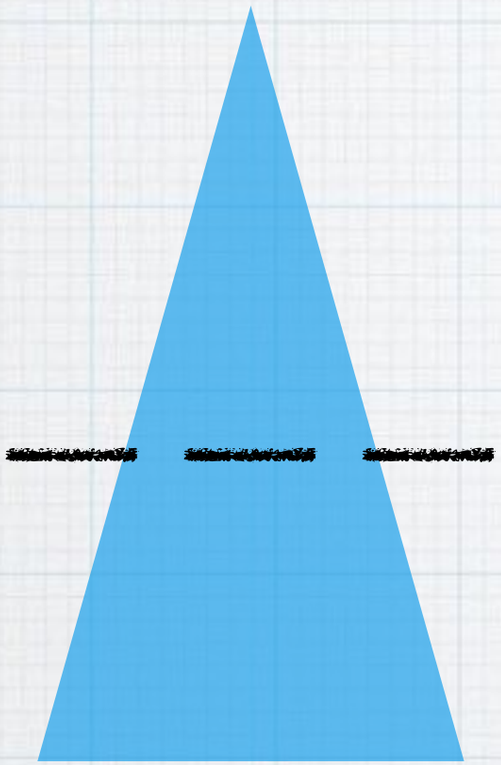
What is symmetry?

Symmetry is when an object looks the exact same on one side as it does on the other.
To see if an object is symmetrical, you draw a line of symmetry.
This is a line through the middle, that shows a perfect match on each side.
It's like making a mirror image.



This triangle has a vertical line of symmetry (a line which goes down through the centre of the shape).
It looks exactly the same on each side of the line.

What is symmetry?



Does the triangle have a horizontal line of symmetry? (a line that goes across through the centre of the shape)?

NO! The shapes on each side of the line are NOT the same

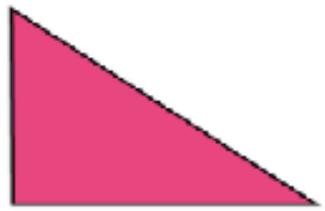
Some shapes have no lines of symmetry. They are NOT symmetrical.
Some, like my triangle, have one line of symmetry.
Some shapes have more than one line of symmetry.

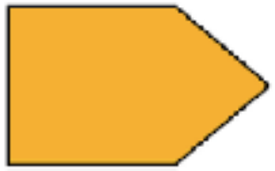
Follow this link to find out more:

https://www.youtube.com/watch?v=SJlhywRfvh8

Activities

Tick the shapes that have a vertical line of symmetry.





If you can, ask a grown up to draw the shape and cut it out carefully.

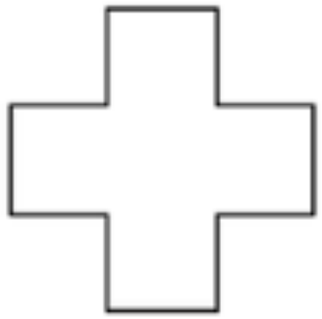
Fold the shape down through the middle (following a vertical line of symmetry). Do the two sides match each other perfectly? If they do, you have found a vertical line of symmetry!

Activities

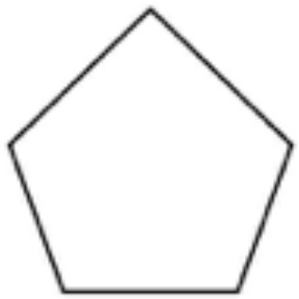
These shapes all have a vertical line of symmetry.
Can you draw it? (Or trace it with your finger!)
Take care- the line must be in the very centre!

a)

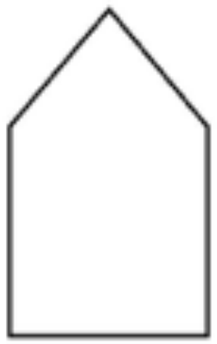
c)



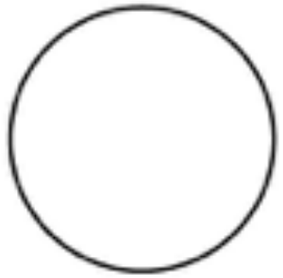
e)



b)



d)



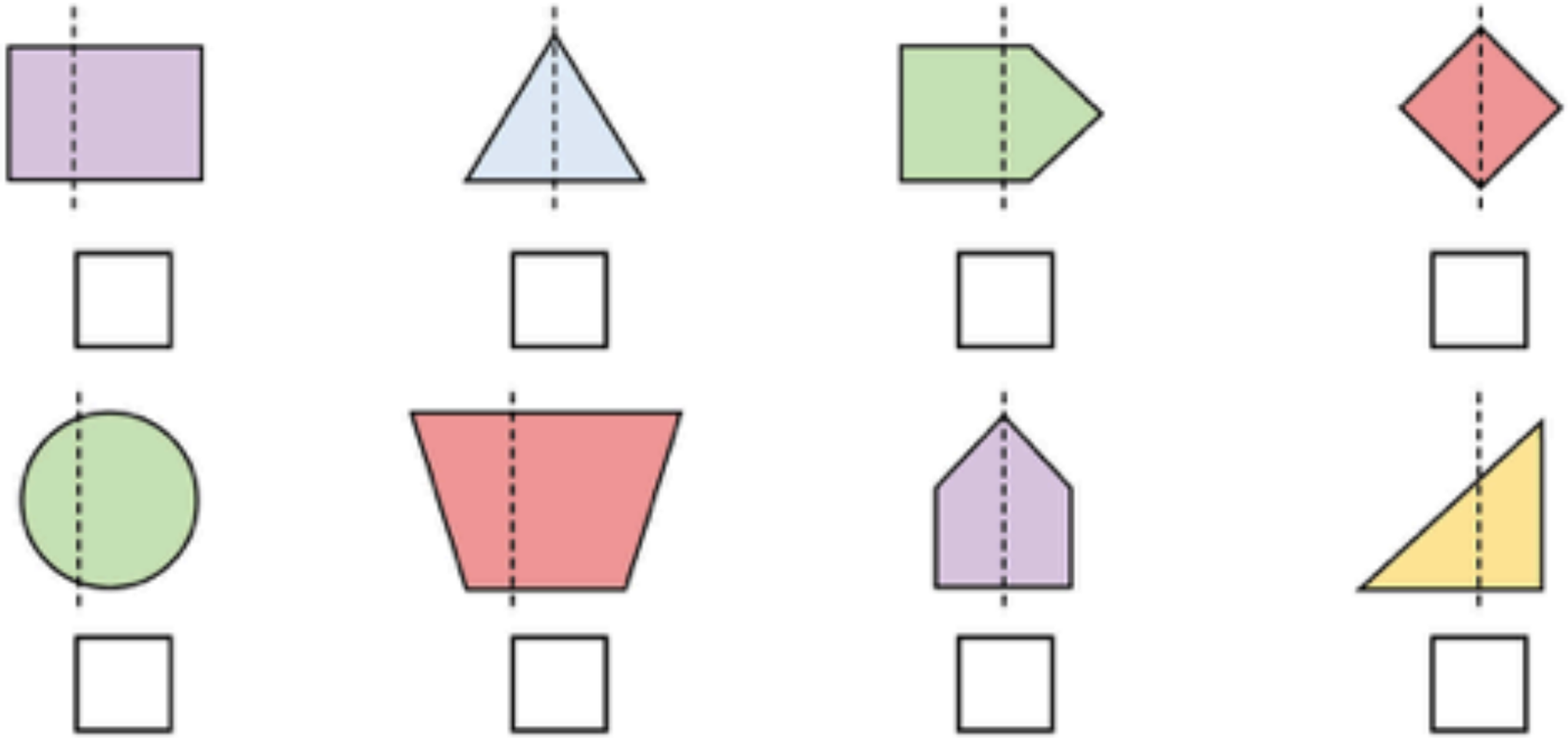
f)

Some of the shapes have more than one line of symmetry.
Can you find any extras?!

Activities

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.

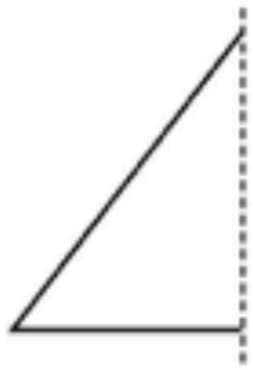
Activities

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

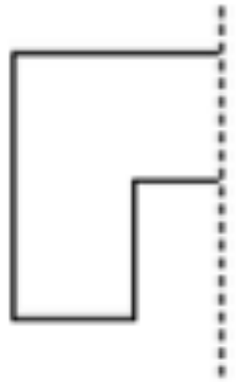
b)

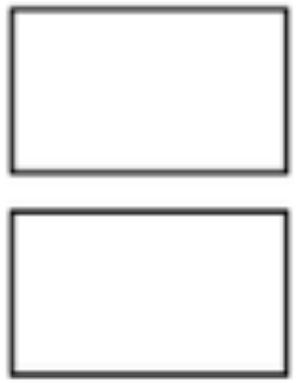
☐ sides

☐ vertices

Activities

c)

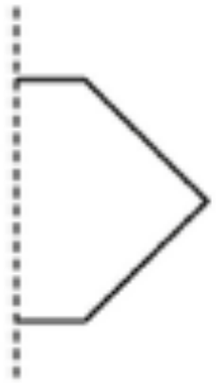


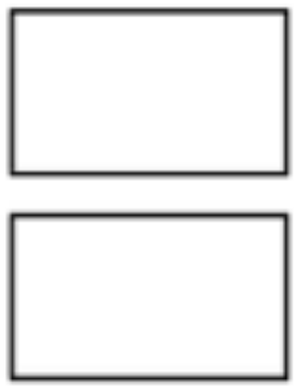


sides

vertices

d)





sides

vertices

End of Lesson 2

Summer 1 - Week 2
Lesson 2

Skill - I can sort 2D shapes

Summer 1 - Week 1
Lesson 3

Rapid Recall

Follow the link to practise your 3 x Table

https://www.topmarks.co.uk/maths-games/mental-maths-train

Big Question

A 3D shape has a face that is a rectangle. What shape could it be?

Activities

Can you sort these shapes into the groups?

triangles

pentagons

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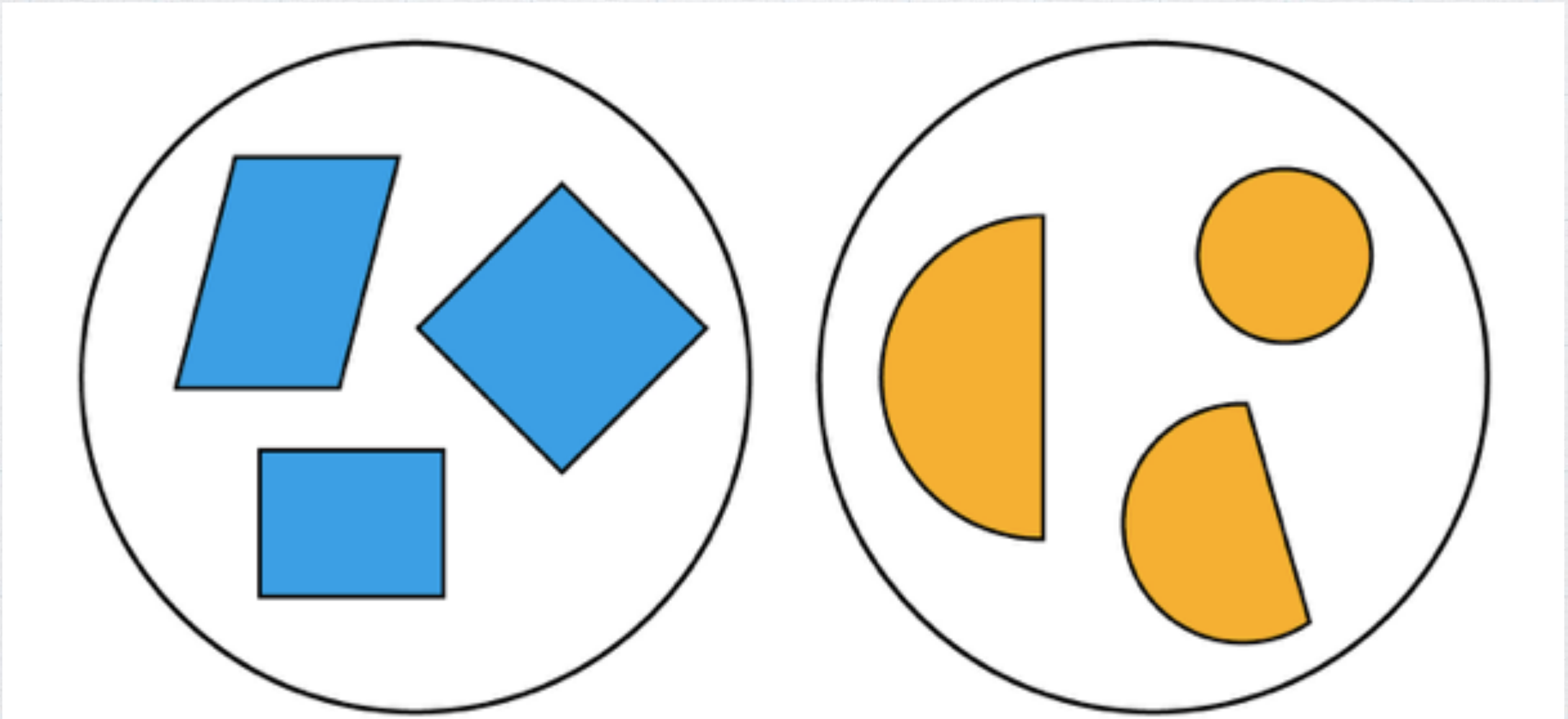
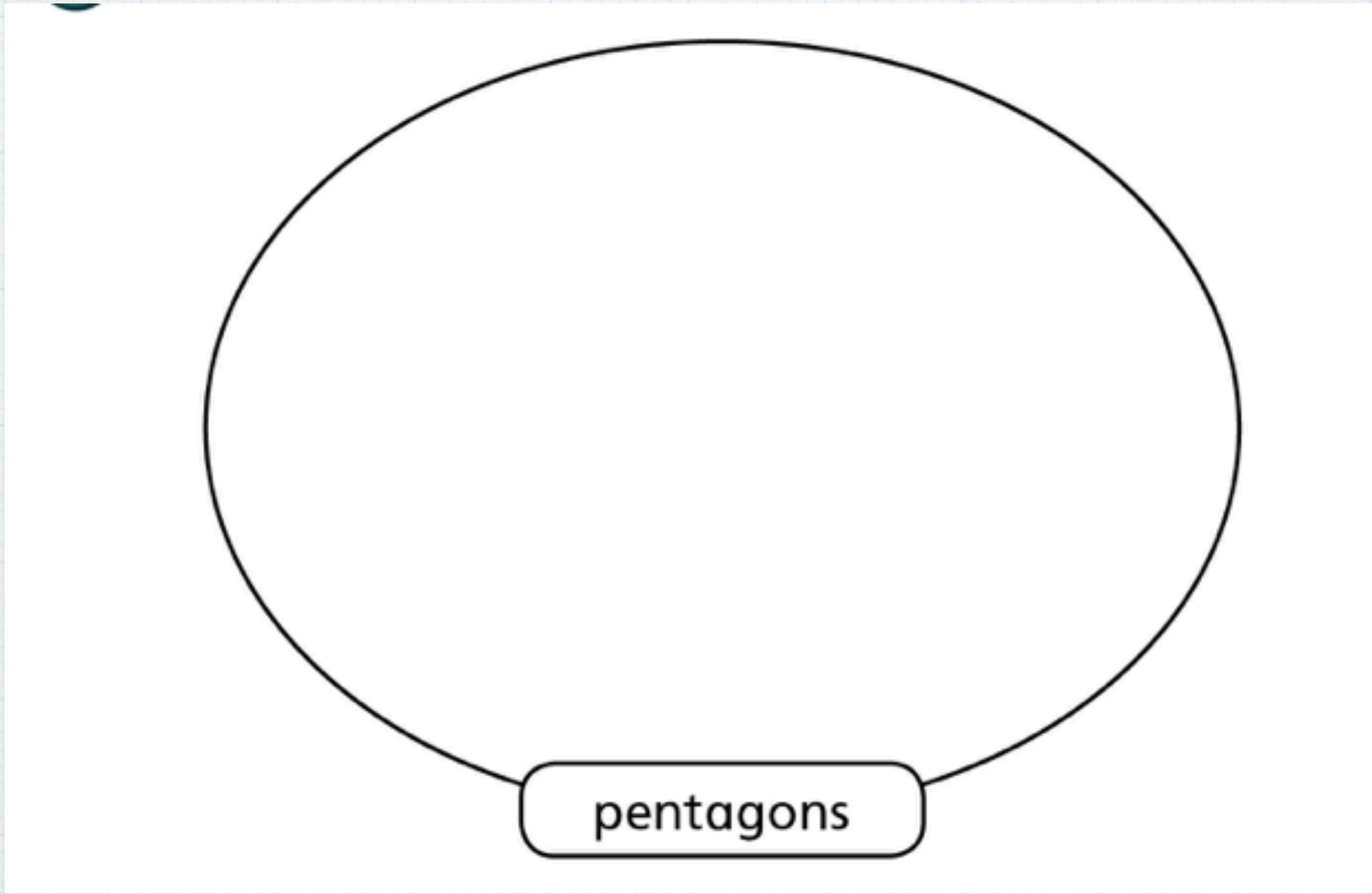
Activities

How have these shapes been sorted?



Activities

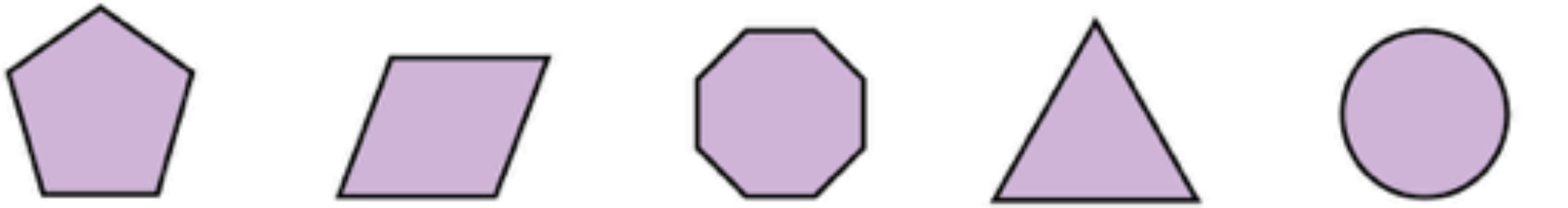
Can you draw your own group of 3 different pentagons?



Activities

Sort the shapes in order of the number of sides.

Start with the shape that has the fewest sides.



A B C D E

fewest

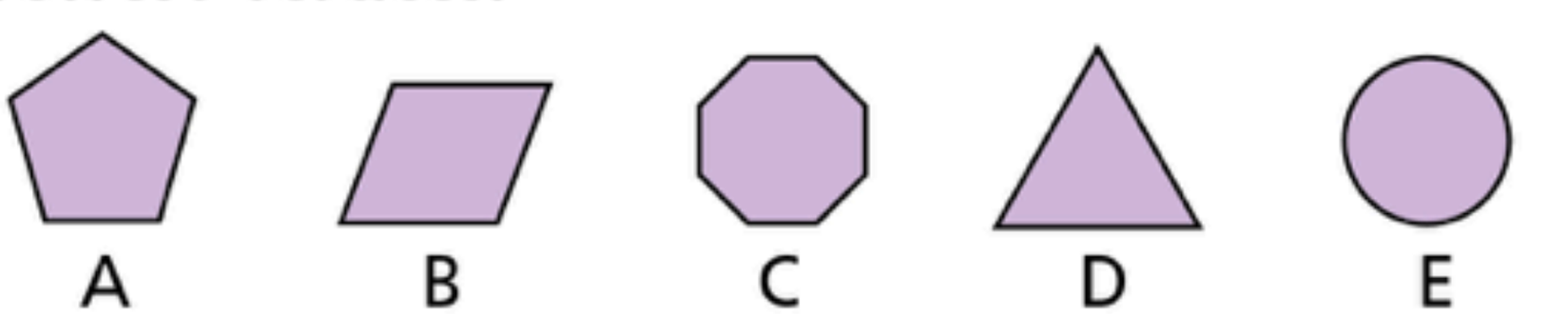
most

_____ _____ _____ _____ _____

Activities

Sort the shapes in order of the number of vertices.

Start with the shape that has the fewest vertices.



A B C D E

fewest most

_____ _____ _____ _____ _____

What do you notice about your answers to part a) and part b)?

Activities

Draw three different shapes in each group.

shapes with 4 sides

Activities

shapes with an odd number of vertices

Activities

shapes with an even number of sides

End of Lesson 3

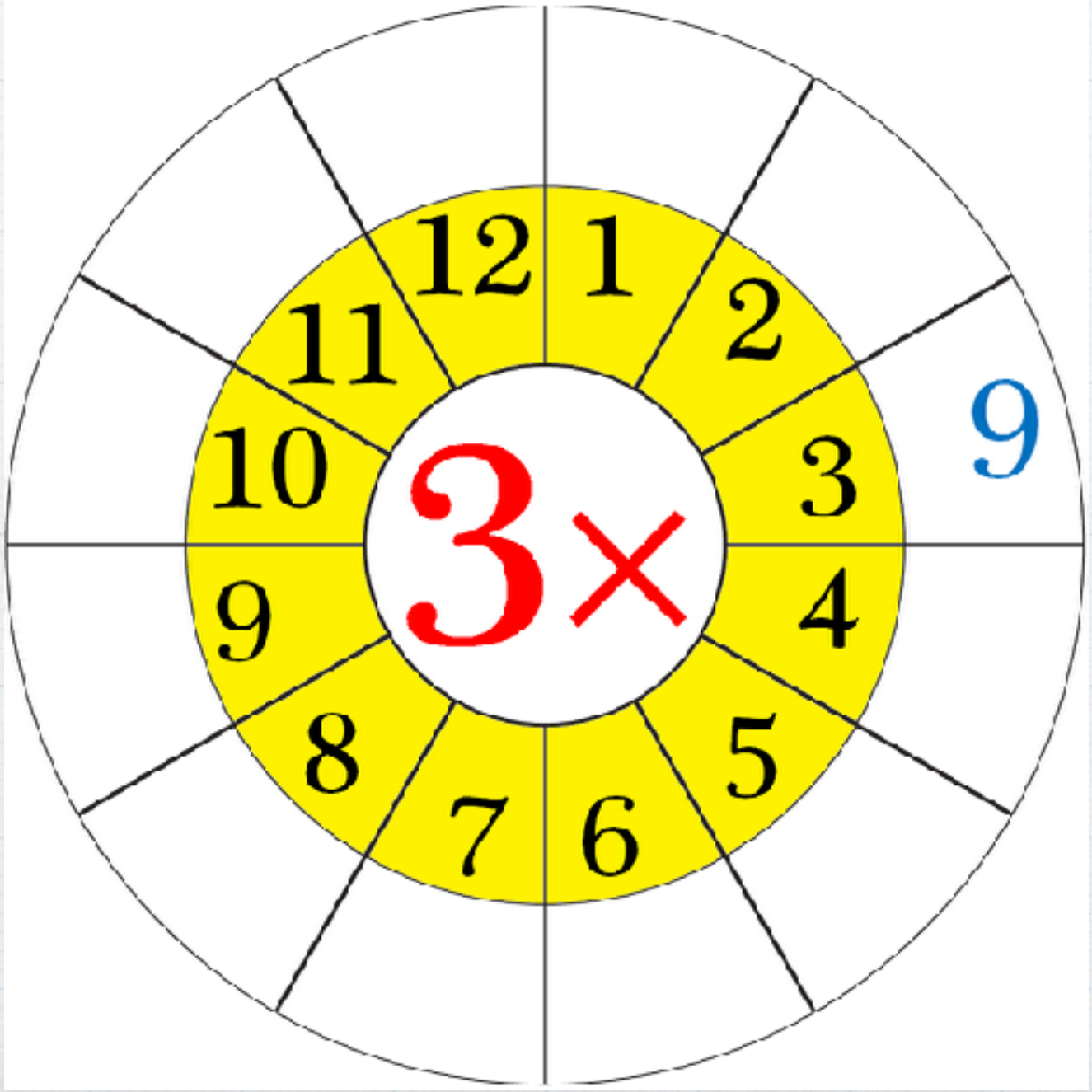
Summer 1 - Week 1
Lesson 3

Skill - I can make patterns with 2D Shapes

Summer 1 - Week 2
Lesson 4

Rapid Recall

Complete the outer layer of the 3x Table circle:



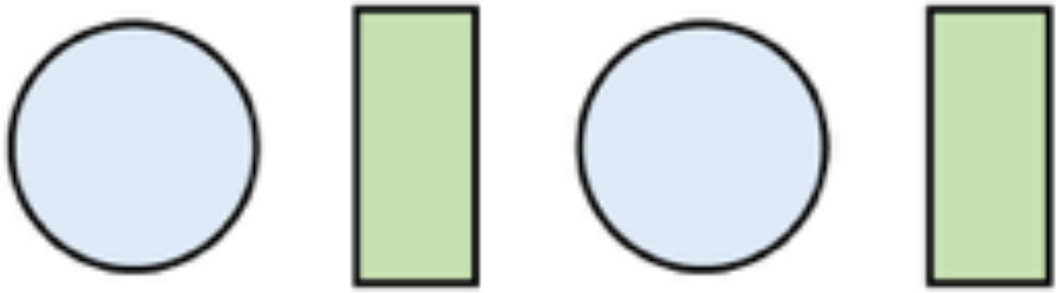
Big Question

A 3D shape has a face that is a circle. What shape could it be?

Activity

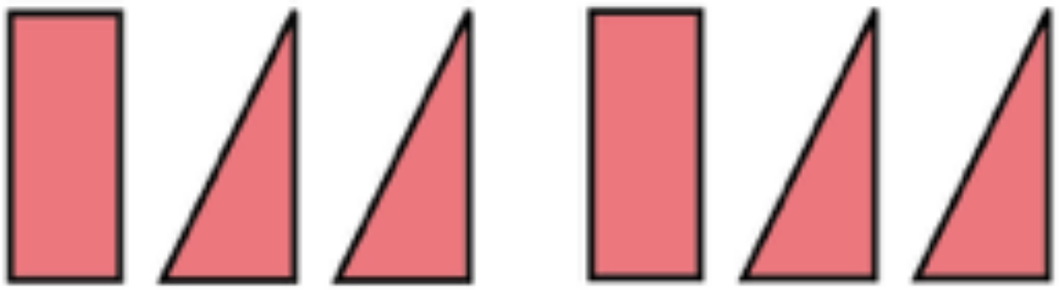
Draw the next two shapes in each pattern.

a)



b)

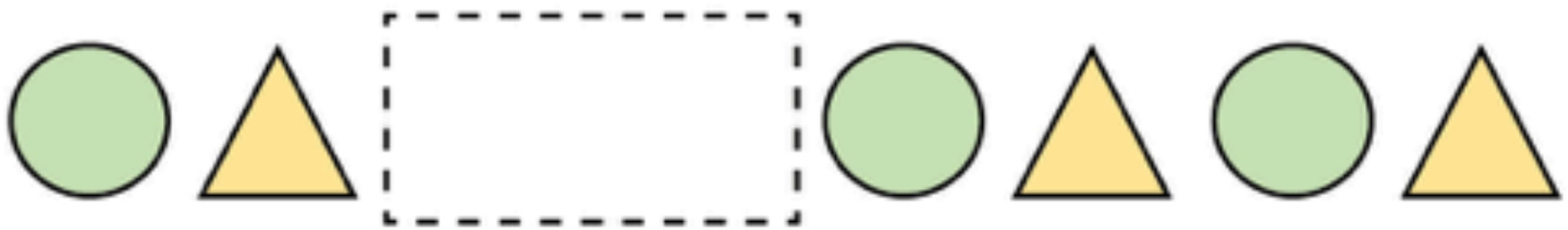
c)

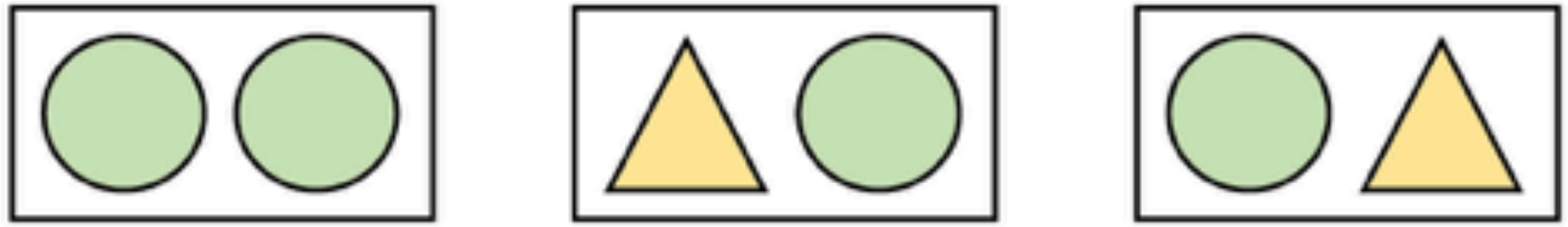


Activity

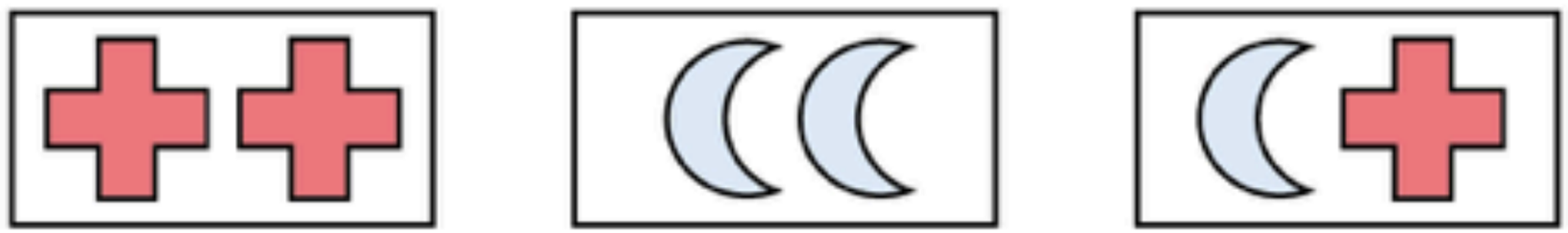
Tick the shapes that fit in each pattern.

a)





b)



Activity

My pattern goes:
circle, triangle, square, then it repeats.

a) Draw the first 9 shapes in Rosie's pattern.

b) What is the name of the 10th shape in the pattern? _____

c) What is the name of the shape to the right of the 5th shape? _____

Activity

Mo makes a pattern using 4 rectangles, 4 triangles and 4 circles.

What could Mo's pattern be?

Draw two different possibilities.

Activity

Write your own repeating pattern of shapes.

For example: circle, rectangle, rectangle, circle, rectangle, rectangle ...

_____, _____, _____, _____,

_____, _____, _____, _____.

Swap with a partner and draw each other's patterns.

End of Lesson 4

Summer 1 - Week 2
Lesson 4

Happy Bank Holiday!

Today, we celebrate the 75th Anniversary of VE (Victory in Europe) Day, which marked the end of World War Two.

Summer 1 - Week 1
Lesson 5

For an extra little activity, see how many shapes you can find inside the Union Jack:

You might want to explore the flags of other countries of the world.

Perhaps you could design your own flag, using 2D shapes!