

A close-up photograph of several green fern fronds. The fronds are long and feathery, with many small, pointed leaflets. They are set against a dark, blurred background, which makes the green color of the ferns stand out. The lighting is soft, highlighting the texture of the leaflets.

RICH MATHEMATICAL TASK BOOKLET

GEOMETRY

YEAR 0

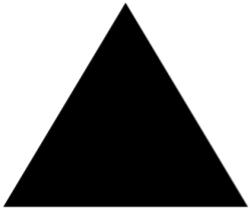





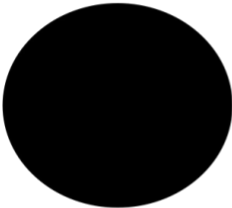
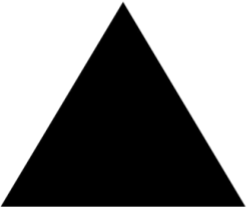
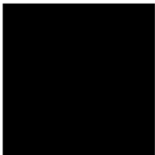
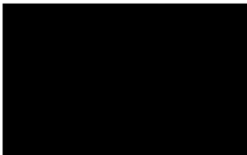



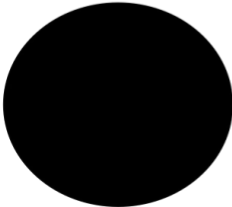
Copy Masters

*Year 0 Geometry***Task 1**

As I hold up a shape, work together to find the exact match.

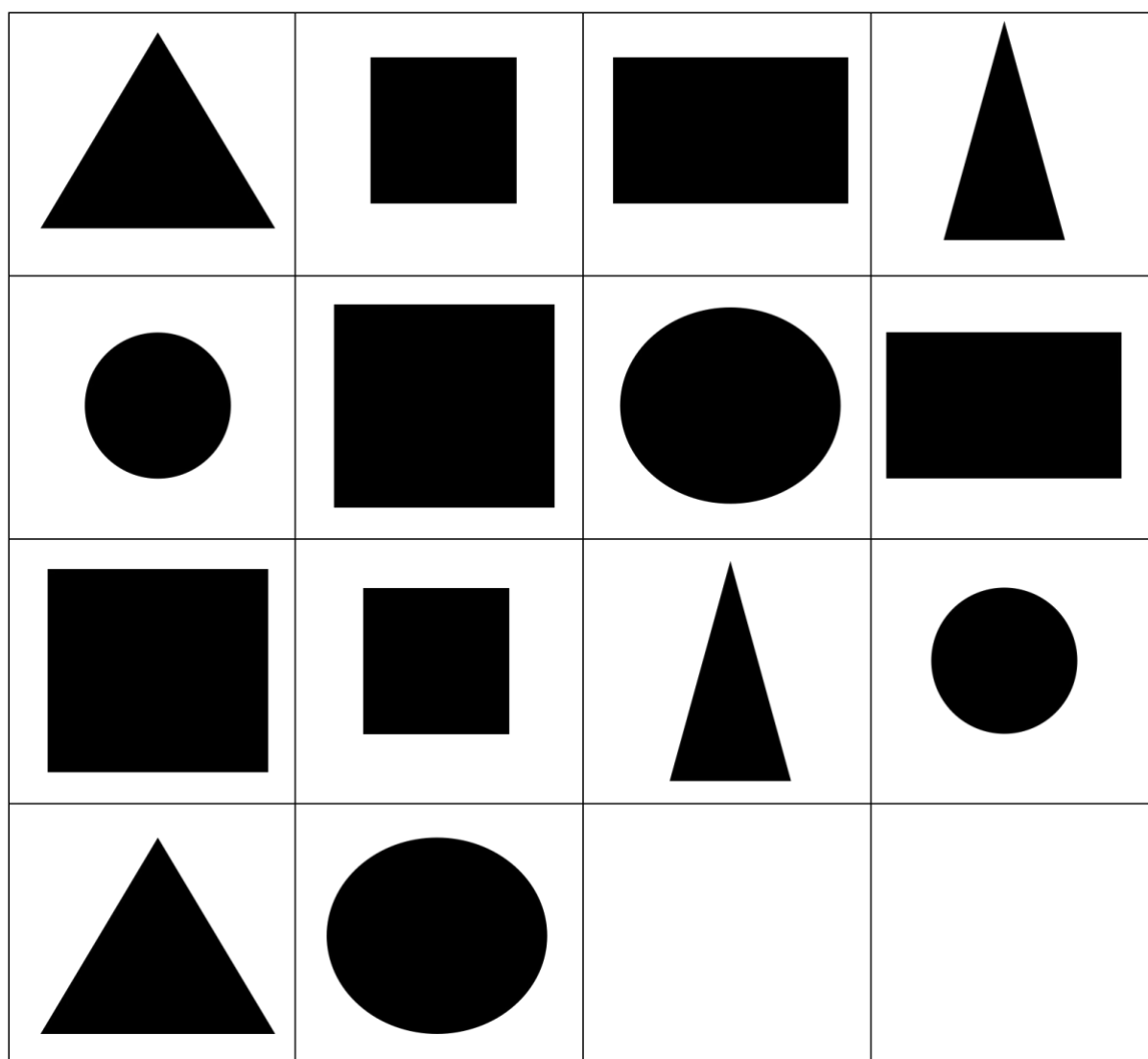
Explain why the shapes are the same. Name the shape.

Task 1 (shapes)

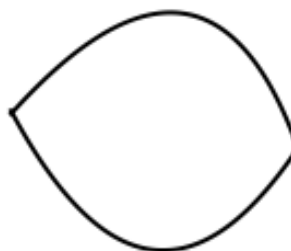
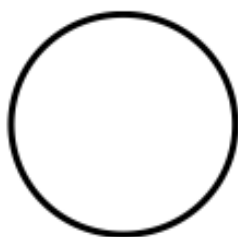
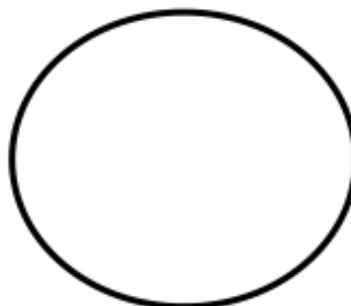
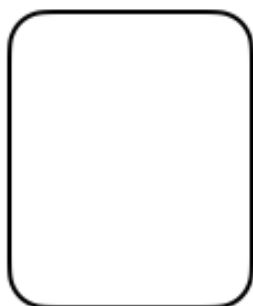
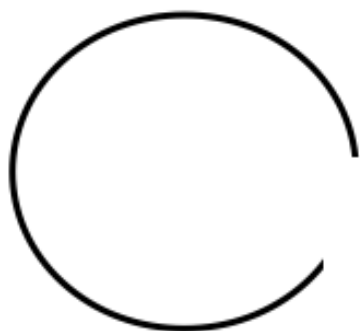
Task 1 (independent)

Cut and match the shapes that are the same.



Task 2

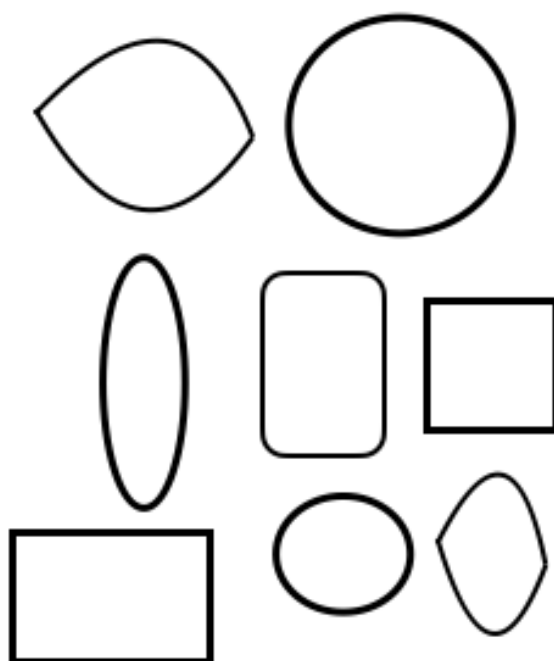
Is this shape a circle? Why or why not?



Task 2 (independent)

Sort these shapes into circles and not a circle.

Circle	Not a Circle



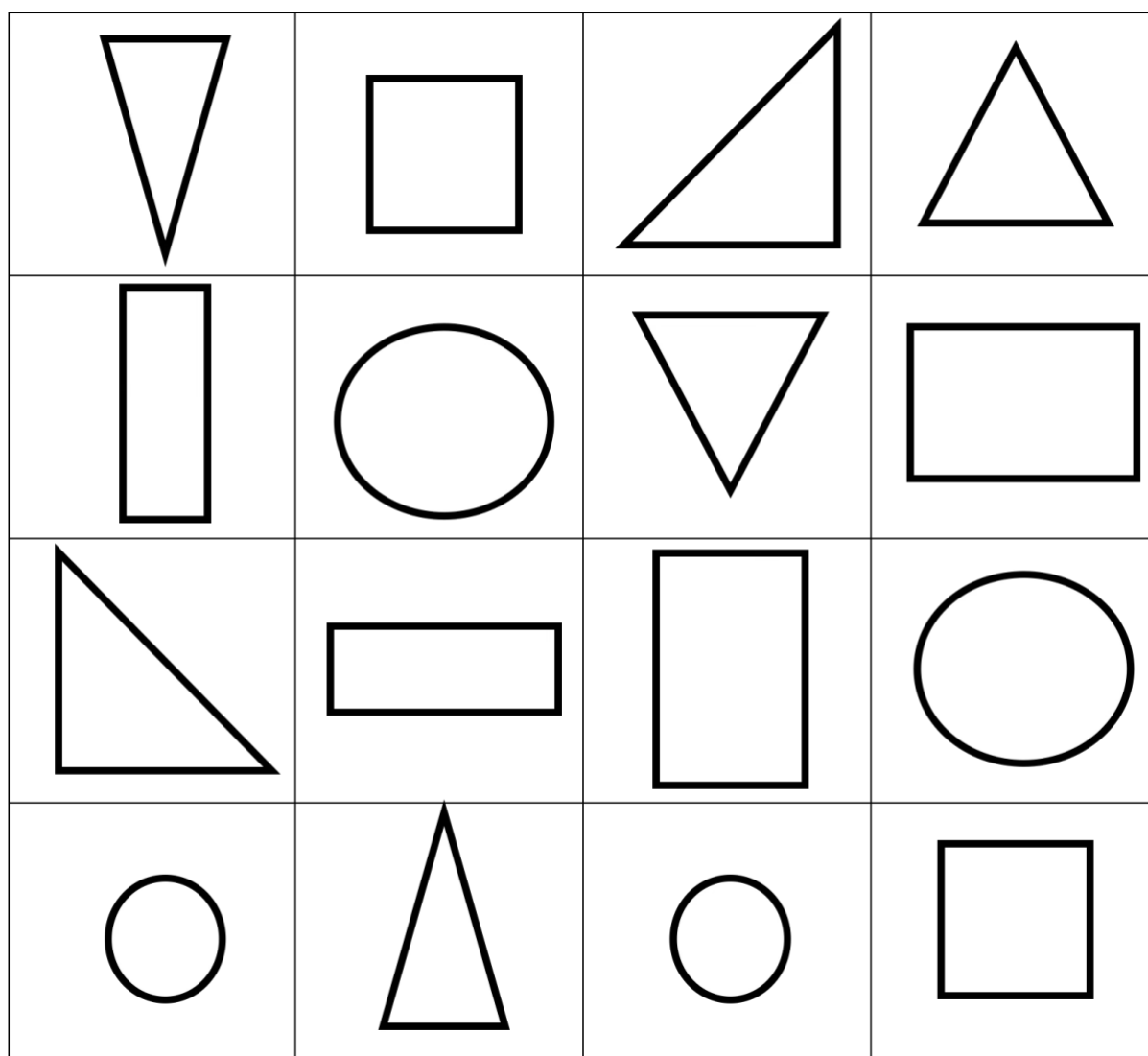
*Year 0 Geometry***Task 3**

Sort these shapes into different groups.

What do you notice?

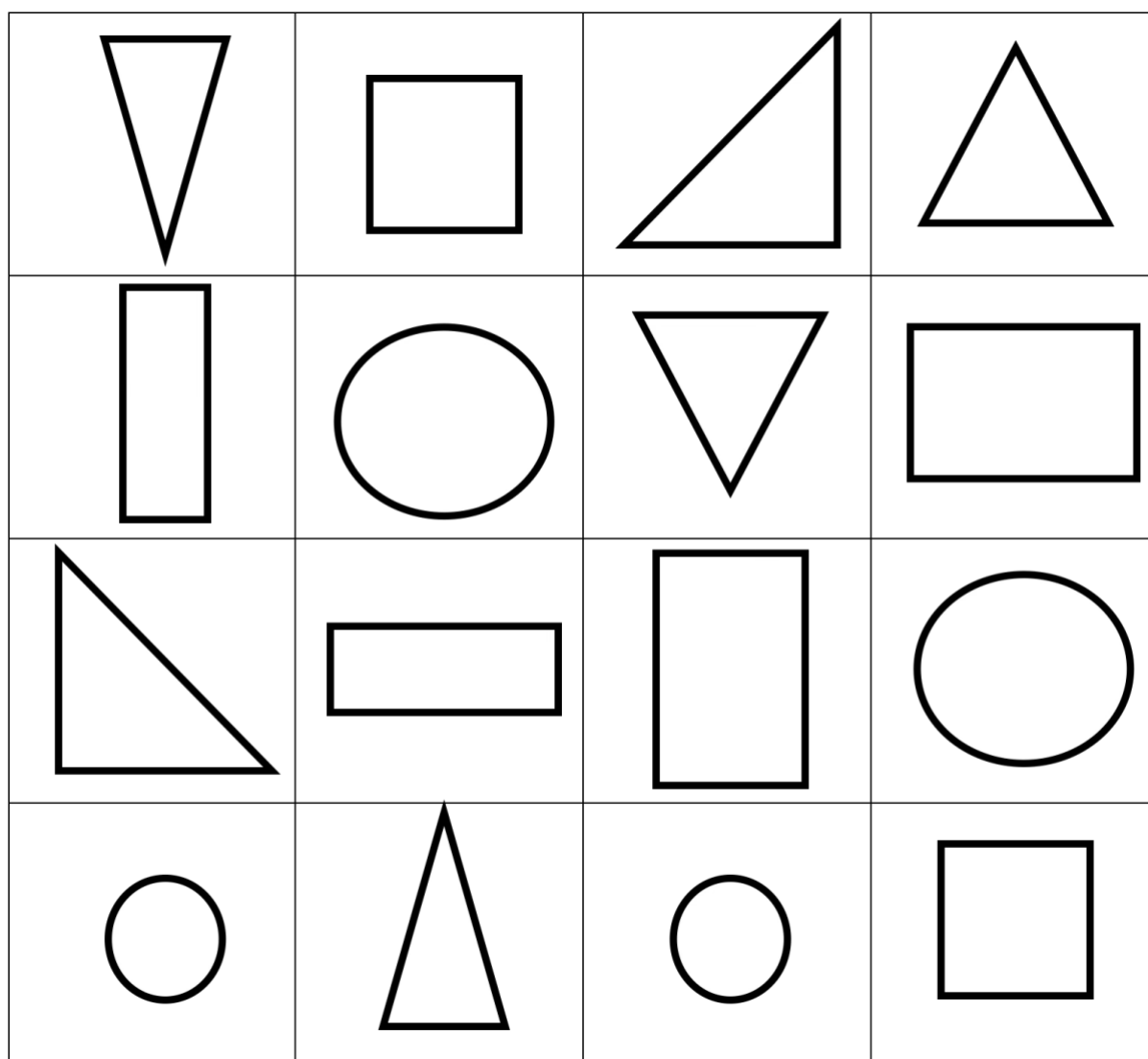
How are the shapes the same?

How are the shapes different?

Task 3 – shapes

Task 3 (independent)

Group these shapes



*Year 0 Geometry***Task 4**

Make a shape train.

Take turns to add a carriage (shape) to the train. Each time a shape is added you must describe one attribute that is different.

*Year 0 Geometry***Task 4 (independent)**

Make a triangle.

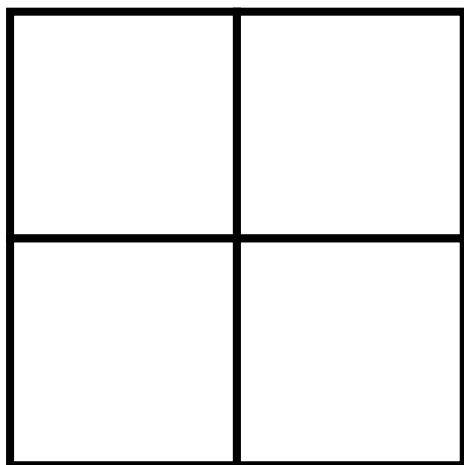
Make a square.

Make a rectangle.

Make a circle.

Task 5

Look at this shape. What does it remind you of?

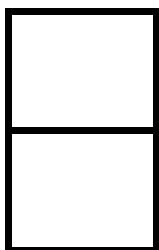
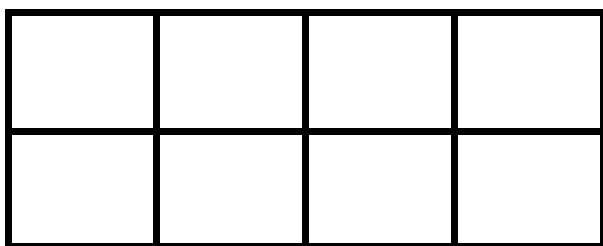
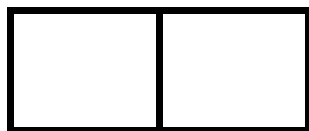
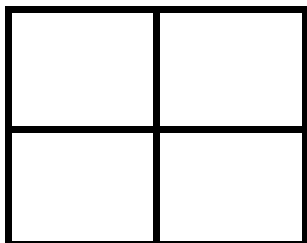


Use your shapes to make this shape.

Describe how you are make it and what you notice about it.

Task 5 (independent)

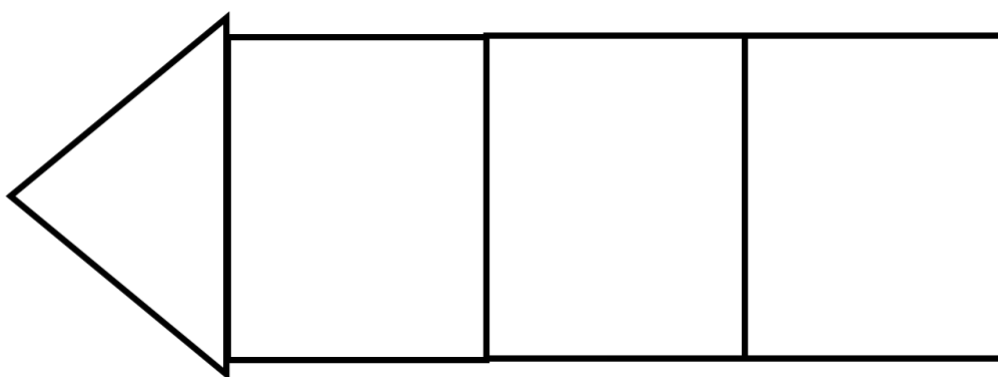
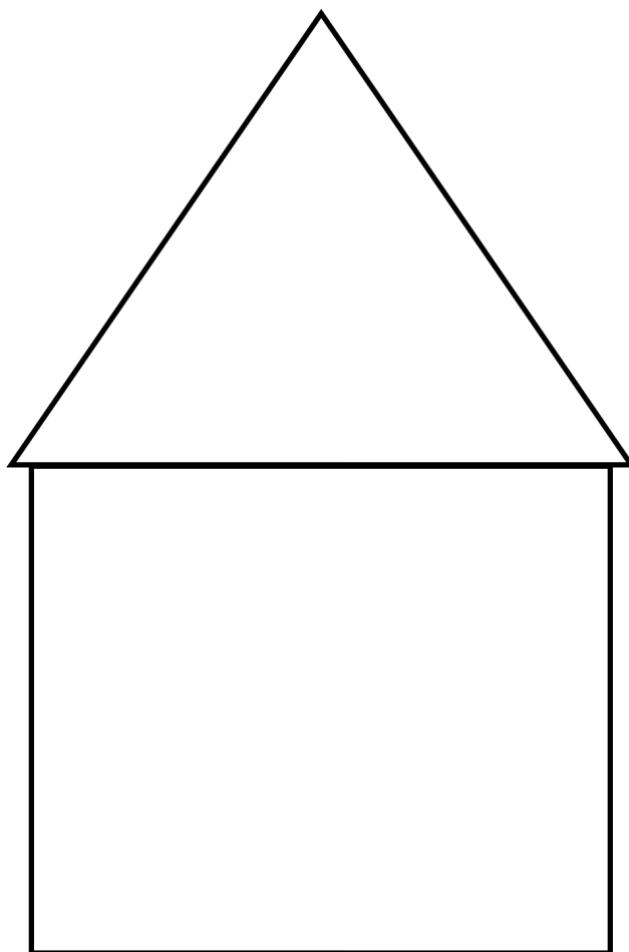
Construct these shapes using small squares.

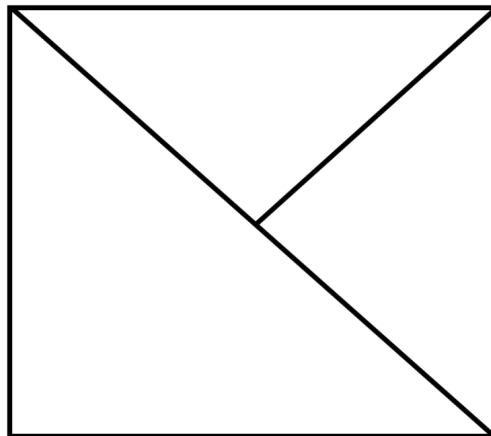
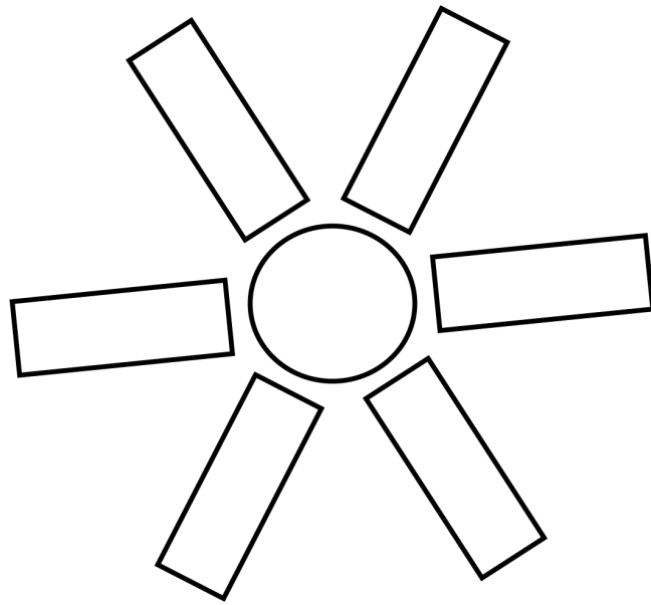


*Year 0 Geometry***Task 6**

Use your shapes to make the picture.

Explain how you made the picture.

Task 6 – Teacher Images

Task 6 – Teacher Images

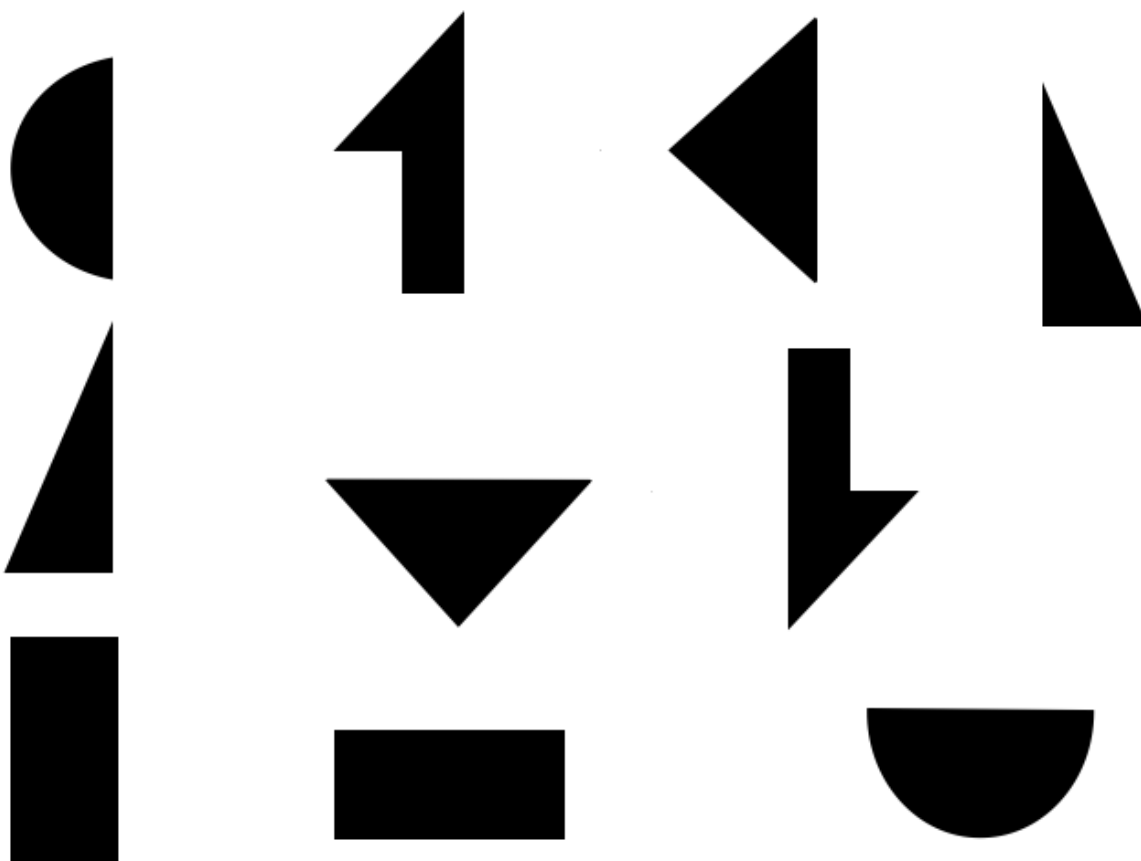
*Year 0 Geometry***Task 6 (independent)**

Use the shapes to create different designs for your partner to copy.

Task 7

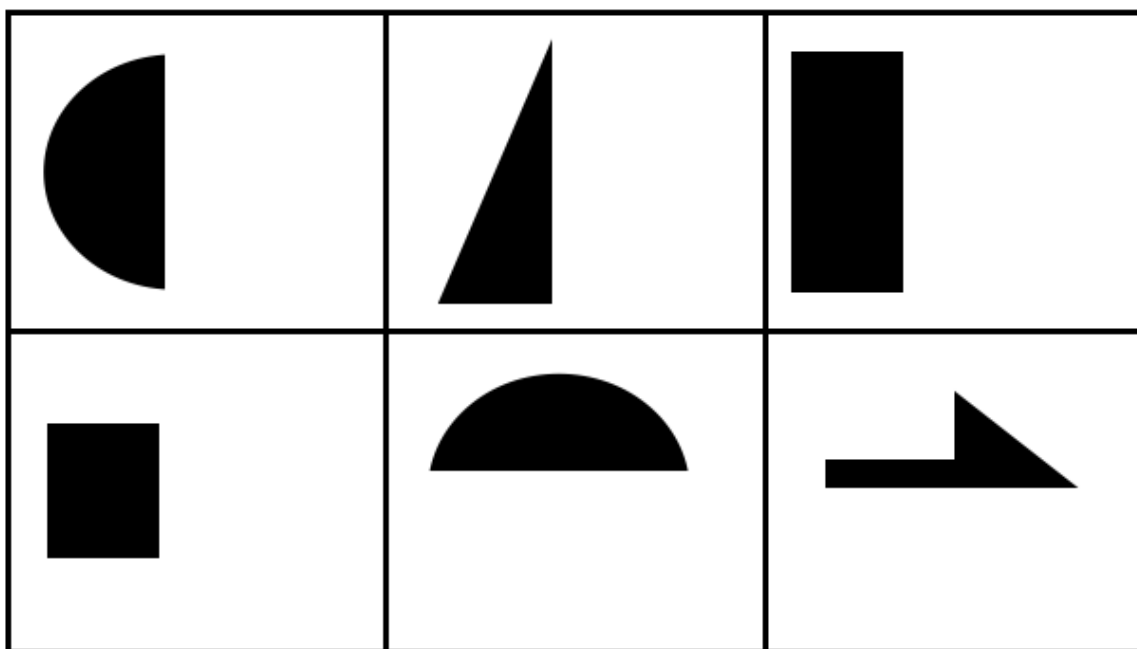
Put the halves back together to make the target shape.

Explain how you make each shape.

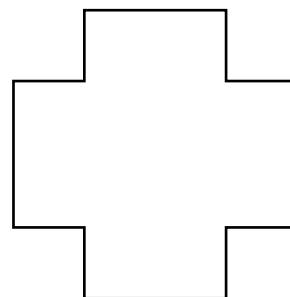
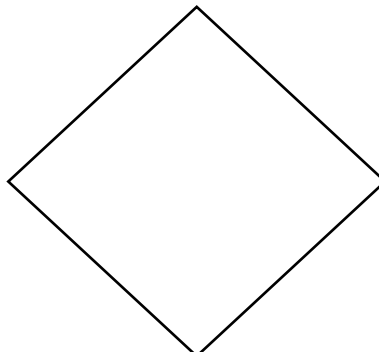


Task 7 (independent)

Draw the missing halves of the shapes.

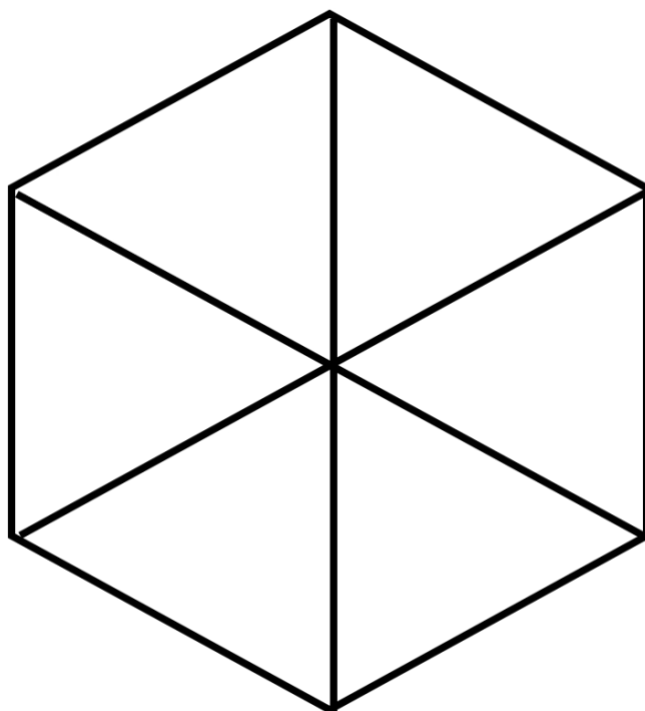
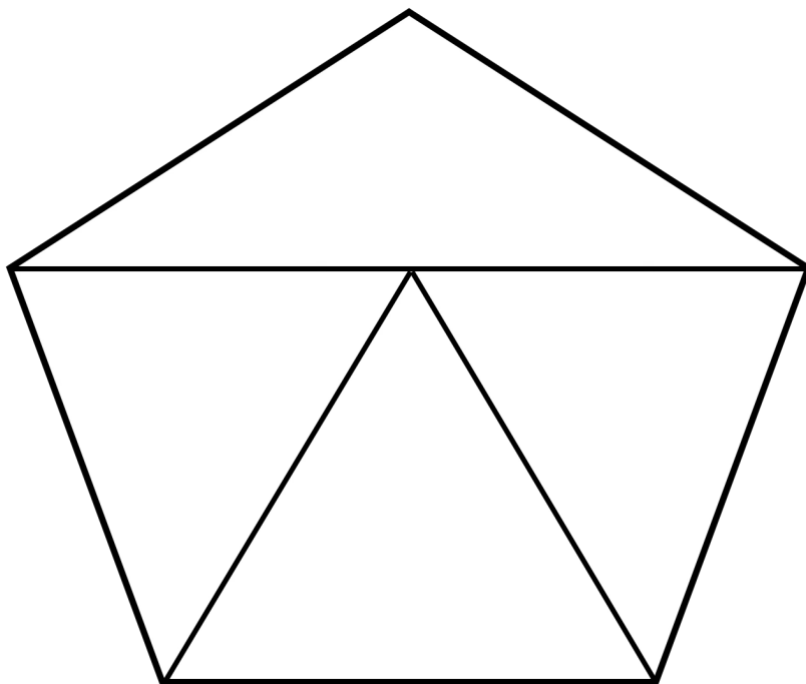


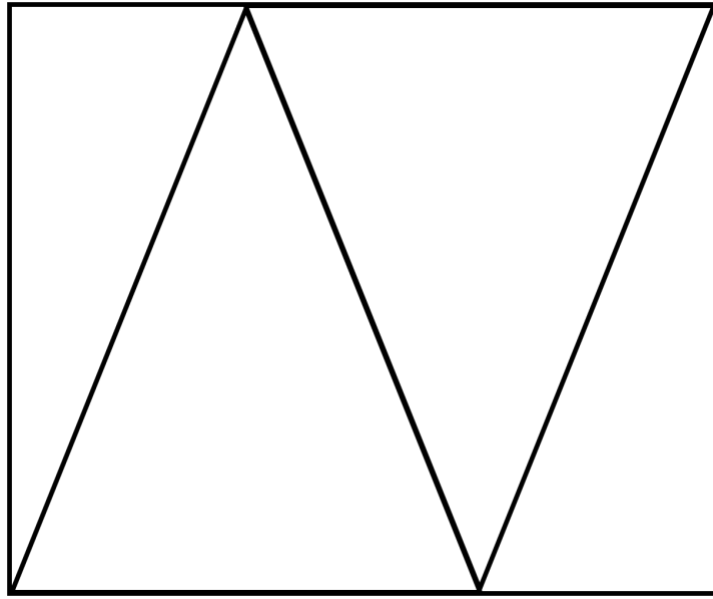
Draw lines onto these shapes to make smaller shapes.



Task 8

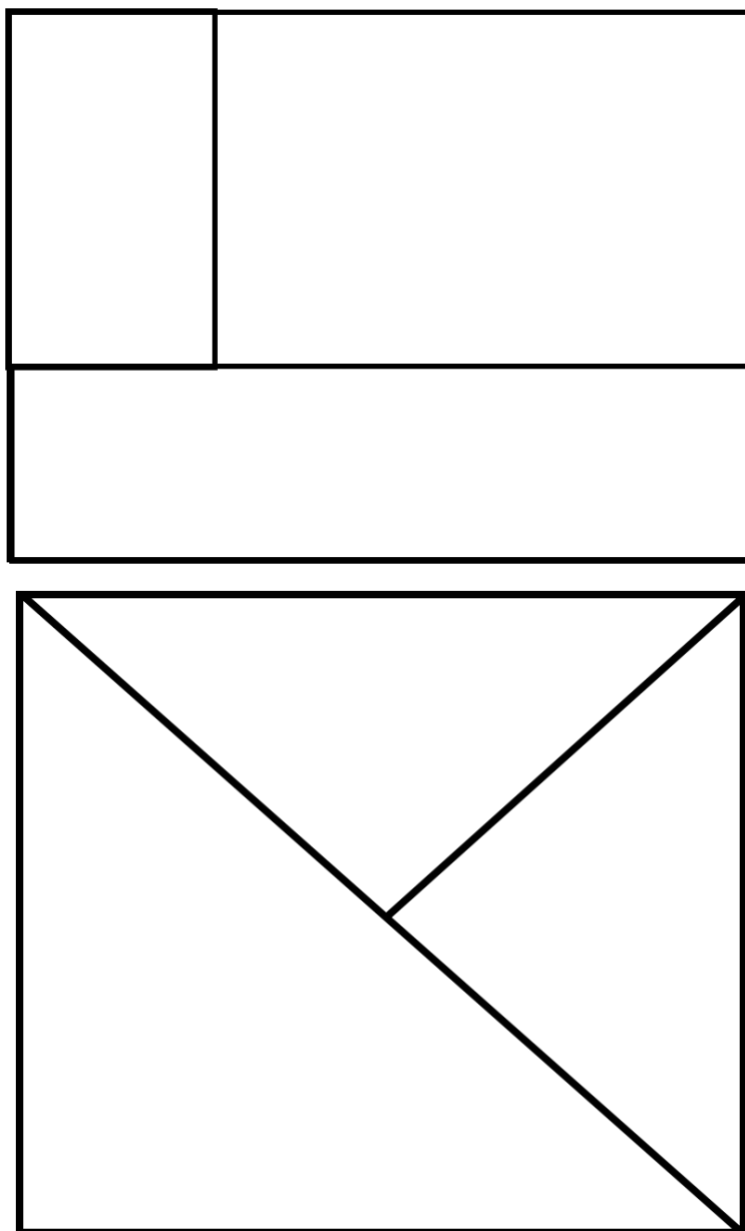
Use the small shapes to fill in the puzzle.



Task 8 – continued

Task 8 (independent)

Complete the shape puzzle.



Use the shapes create your own puzzle to share with a buddy.

*Year 0 Geometry***Task 9**

Follow instructions to find an object within the room.

*Year 0 Geometry***Task 9 (independent)**

Hide an object in the classroom for a friend to find.

Draw a set of arrows to give your friend directions to the object.

See if your friend can use the arrows to find the object.

Task 10

Pretend to be a robot and follow the instructions.

*Year 0 Geometry***Task 10 (independent)**

Work together with a buddy playing the robot game.

Give directions to each other to move around the room.

*Year 0 Geometry***Task 11**

We are going on a bear hunt!

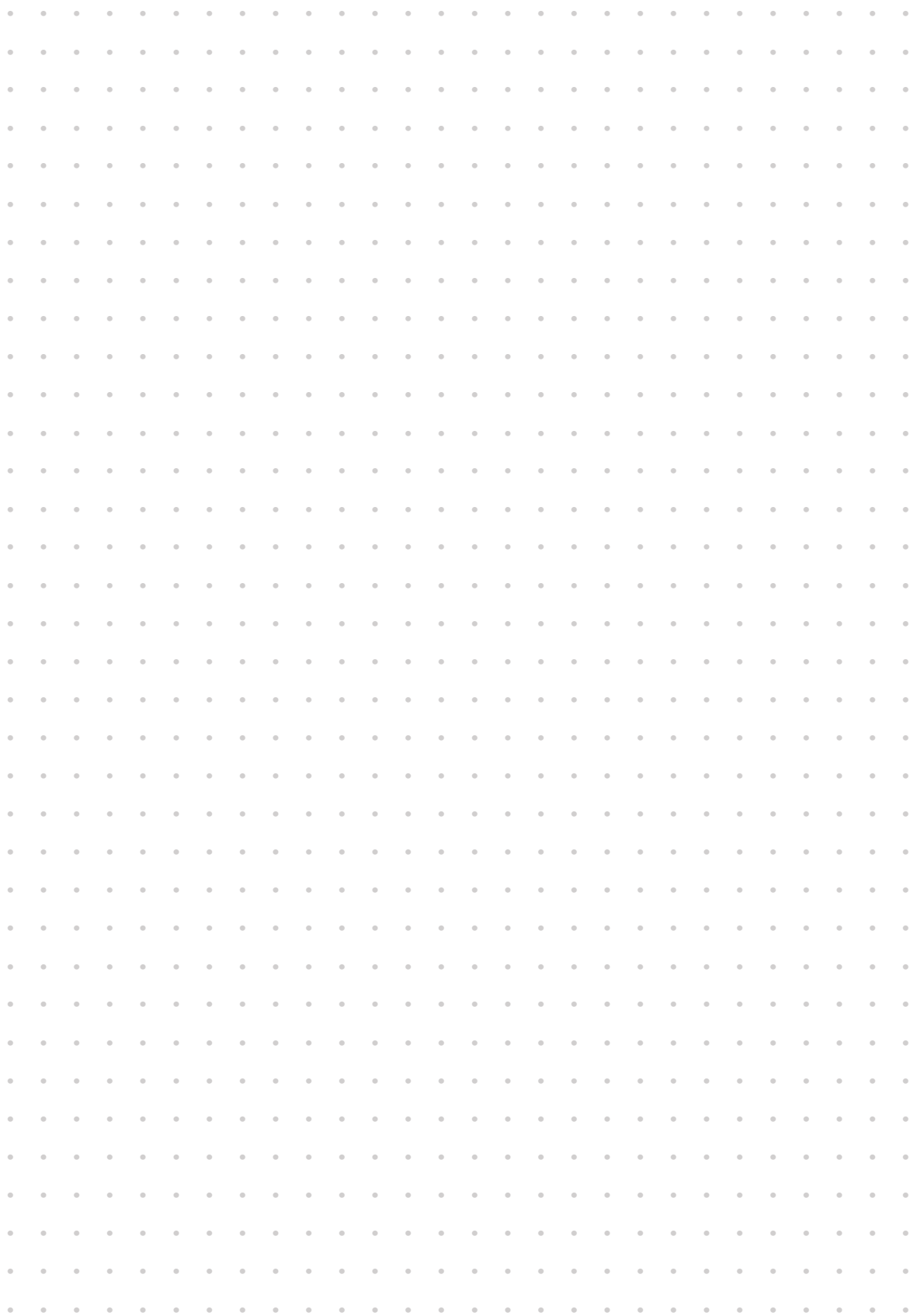
Explain where you are.

*Year 0 Geometry***Task 11 (Independent Task)**

Give instructions for your buddy to find an object.

Task 12

- 1.Hide an object for your group.
- 2.Give instructions so your group can find the item.

Dotty Paper

Squared Paper