

# Geometry



My Name

## **Mathseeds Geometry Series B Student Book**

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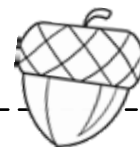
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# In this book



The **Mathseeds** program teaches children the core maths and problem solving skills needed to be successful at school.

Each online lesson begins by introducing and modelling a mathematical concept. The child then completes a wide range of activities where they practise the new skill. These activities present the content in many different ways so that children learn to use and apply each new skill in a variety of situations.

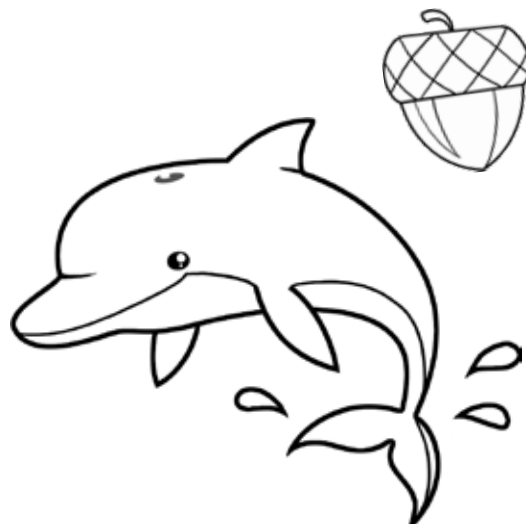
This book is designed to supplement the online program with more exercises in the core mathematical concepts. Each unit focuses on a topic within the main learning strand, presenting a series of pen and paper activities, word problems, puzzles and games to practice their skills and understanding.

The topics in this book align with the following components of the Australian Curriculum:

## **Australian Curriculum content codes and descriptions**

**ACMMG022** Recognise and classify familiar two-dimensional shapes and three dimensional objects using obvious features

**ACMMG023** Give and follow directions to familiar locations

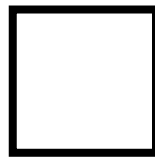


# Shape vocabulary

2D shapes

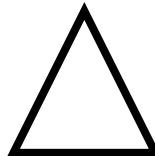
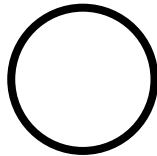
Match.

square



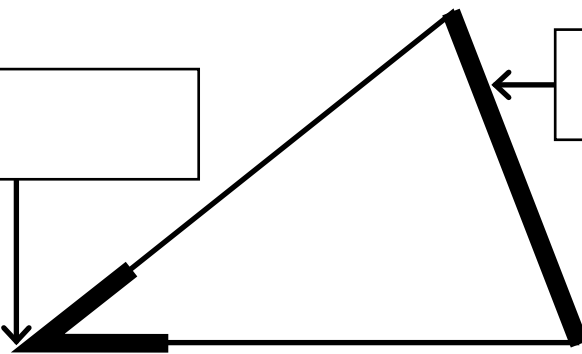
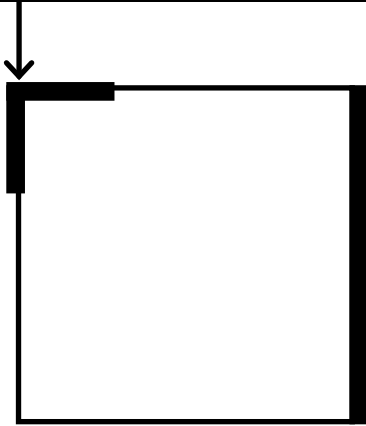
circle

triangle



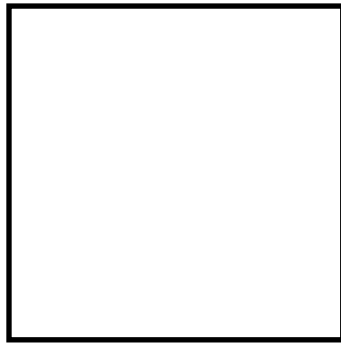
rectangle

2 Label the parts of the shapes - corner or side.

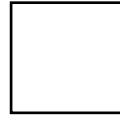


# Sides and corners

Complete.



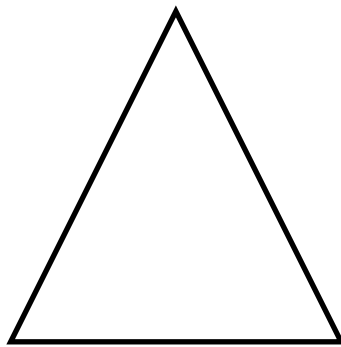
Number of



sides



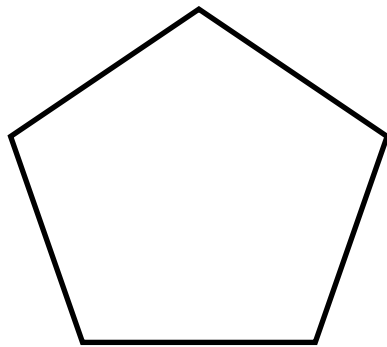
corners



sides



corners



sides



corners



sides

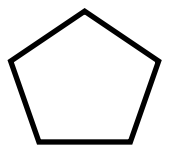
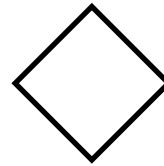
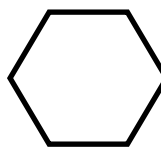
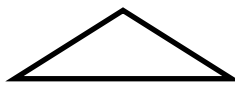
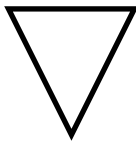
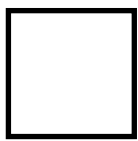
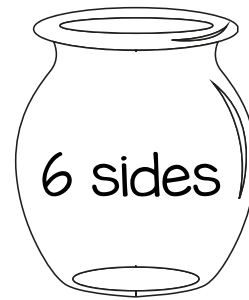
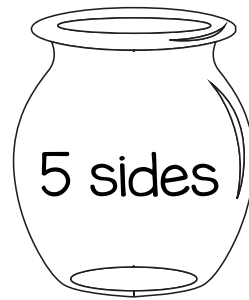
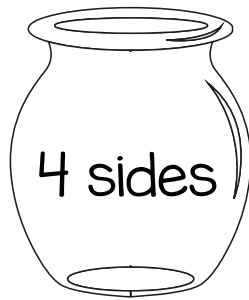
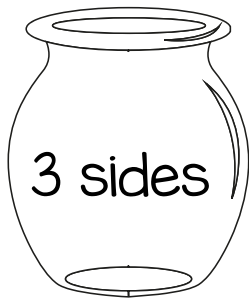


corners

# Shape sort

2D shapes

1 Join each shape to the correct jar.



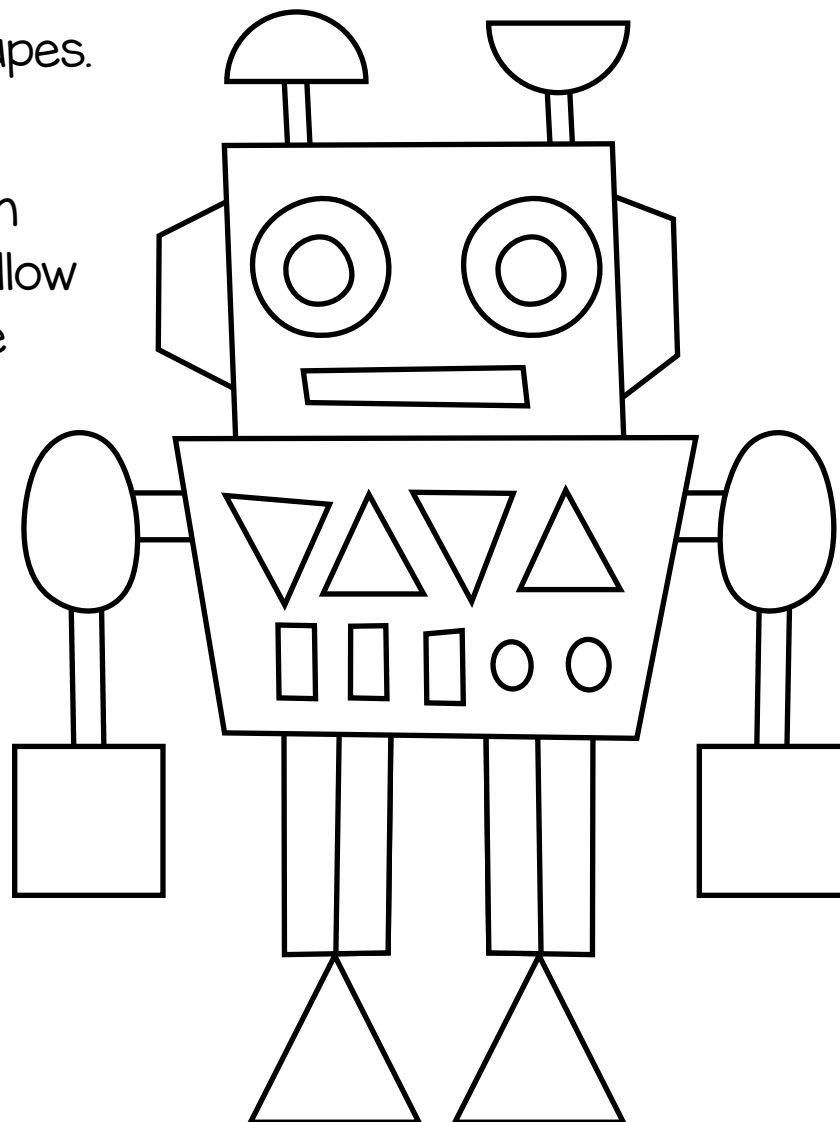
2 Colour the shapes.

triangle = red

square = green

rectangle = yellow

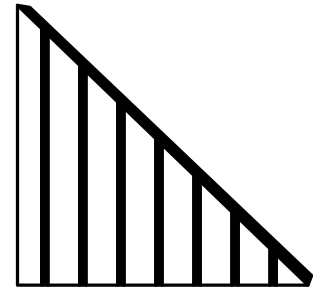
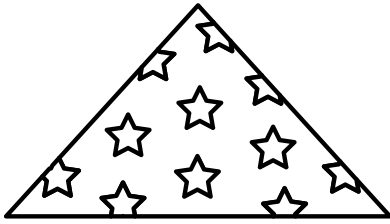
circle = orange



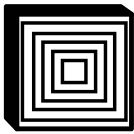
# Shape match

2D shapes

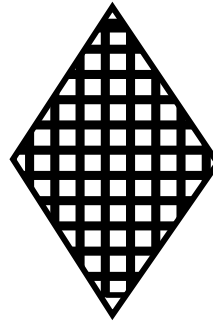
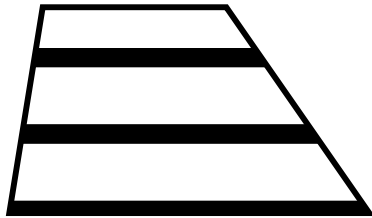
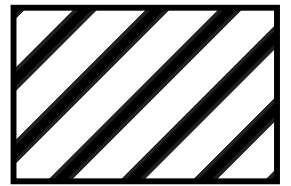
1 Draw lines to match.



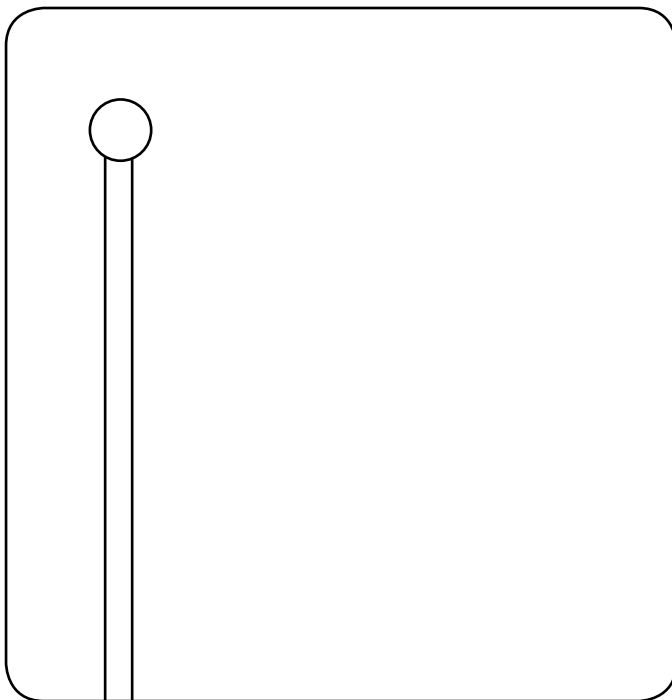
3 sides



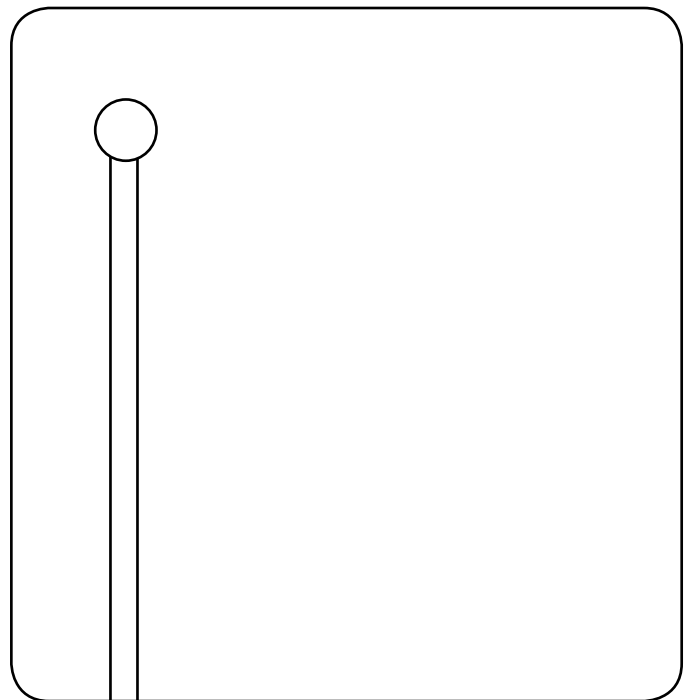
4 sides



2 Draw.



a flag with 3 sides



a flag with four corners

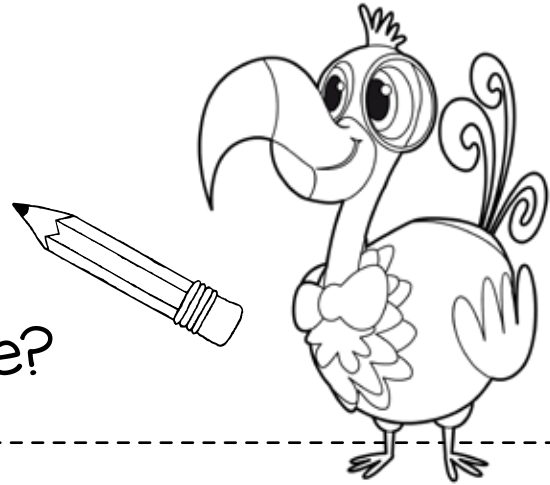
# 4 corners problem

2D shapes

1 Read.

Doc drew a shape that has 4 corners.

What could the shape be?



2 Underline the question.      3 Circle the facts.

4 Draw some shapes.

5 How many sides on each shape? \_\_\_\_\_

# Making smaller shapes

2D shapes

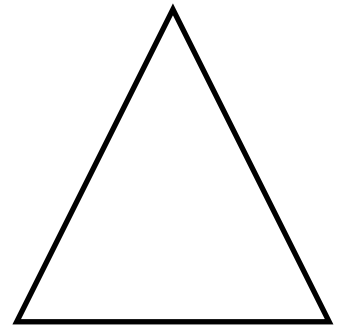
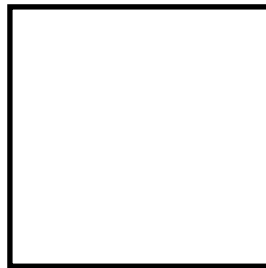
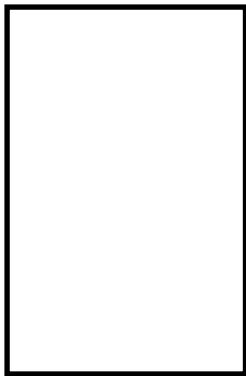
1 Draw.

a triangle

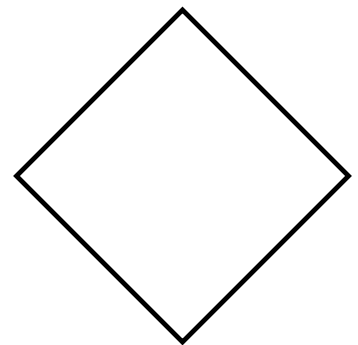
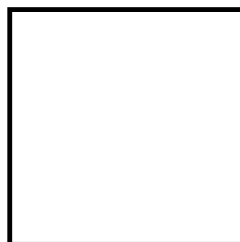
a rectangle

a square

2 Draw one line to change each shape into 2 triangles.



3 Draw 2 lines on each shape to make 4 smaller 2D shapes.  
Name the shapes you have made.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Making larger shapes

2D shapes

1 Draw

2 rectangles making a square.

4 squares making a rectangle.

2 Put together 2 half circles.

What shape did you make? \_\_\_\_\_

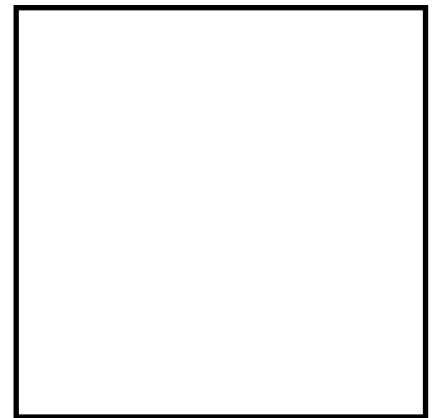
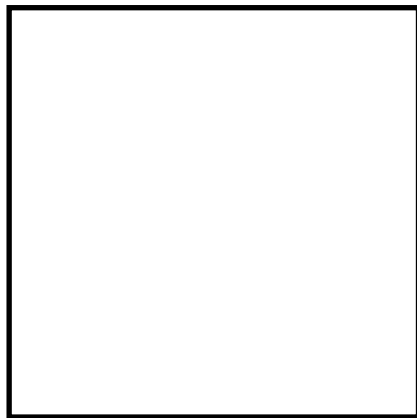
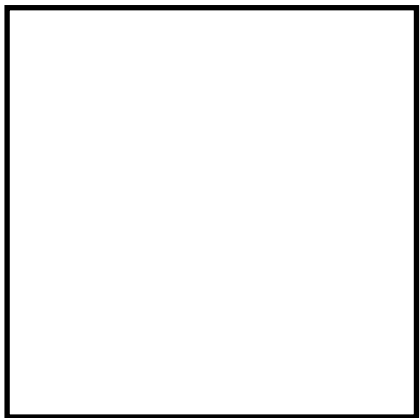
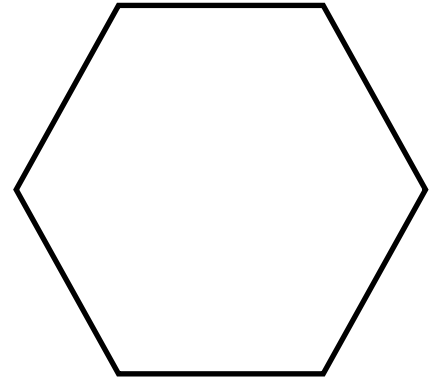
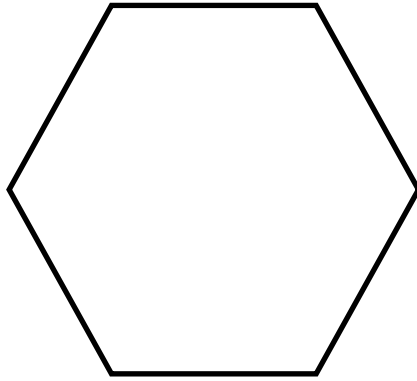
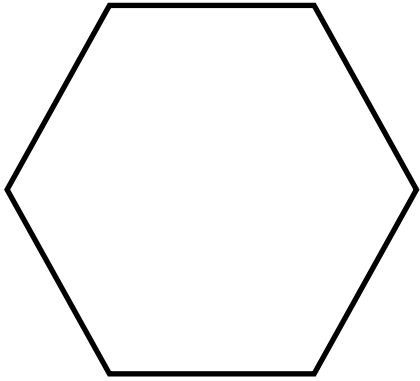
3 Put together 4 triangles.

What shape did you make? \_\_\_\_\_

# Compose shapes

2D shapes

I How many different ways can you make these shapes using smaller shapes? Use pattern blocks to help you.



# Putting shapes together problem

2D shapes

1 Read.

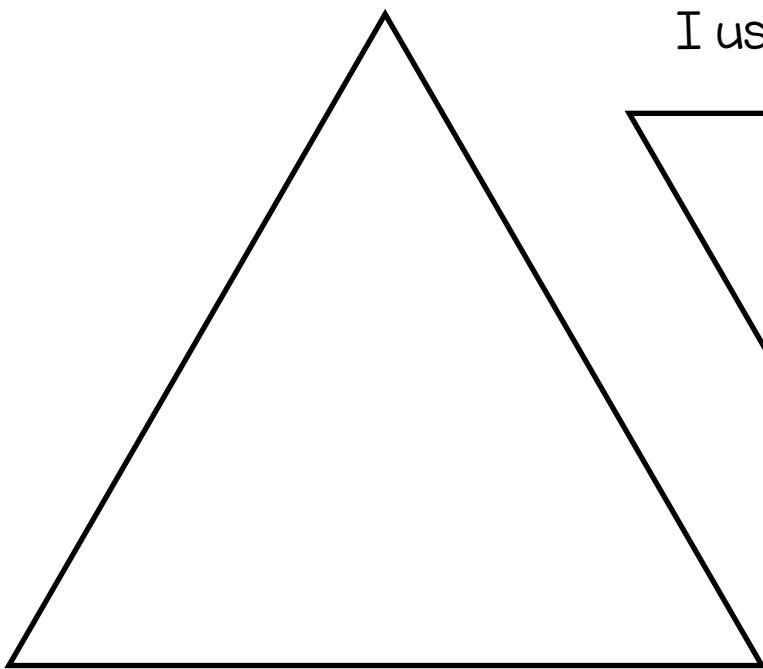
How can you fill this triangle with different pattern blocks?

2 Underline the question. 3 Circle the facts.

4 Act it out by placing shapes on top of the triangle.

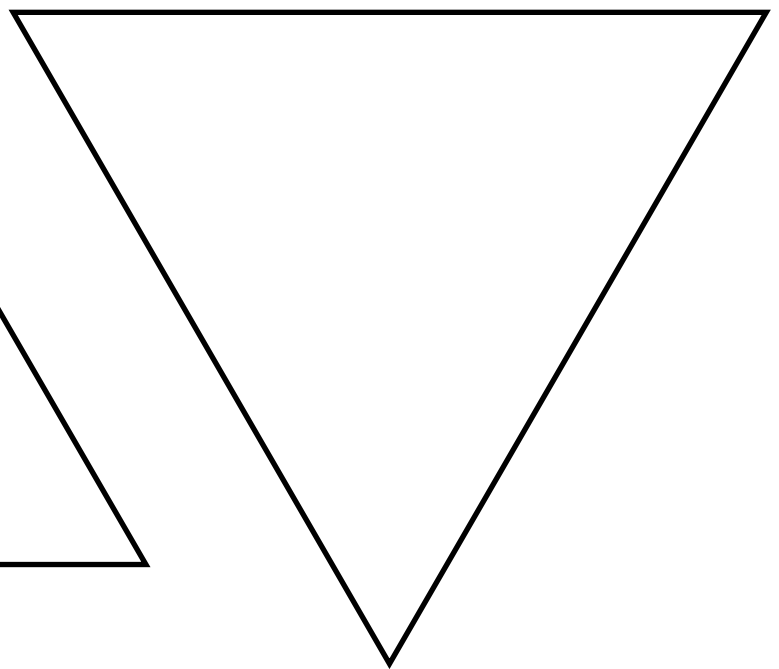
5 Try some other ways, then choose your favourite two.

6 Draw and colour the blocks.



I used \_\_\_\_\_ pattern blocks.

I used \_\_\_\_\_ pattern blocks.



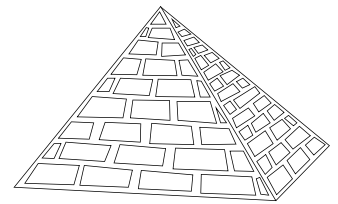
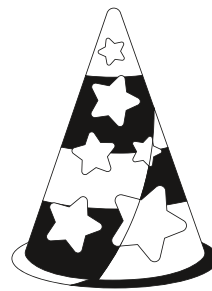
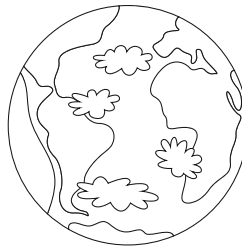
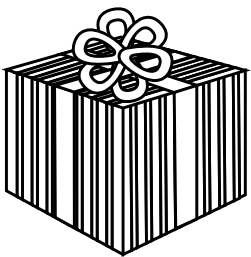
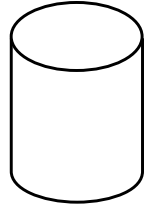
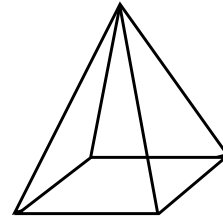
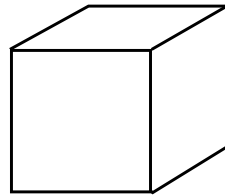
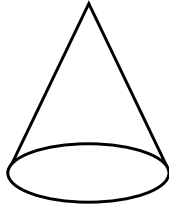
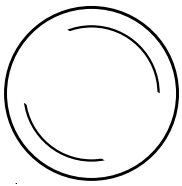
7 Compare yours with a partner's. Did you use a different number of blocks?

8 Try to make your partner's pattern.

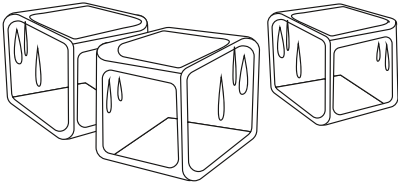
# Stack

3D objects

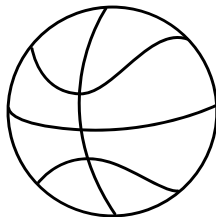
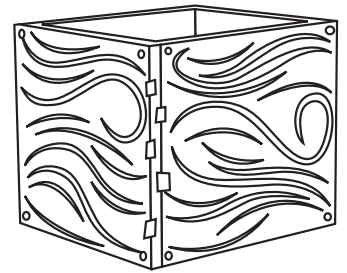
1 Match the 3D objects to the pictures.



2 Draw lines to match.



can stack



cannot stack

