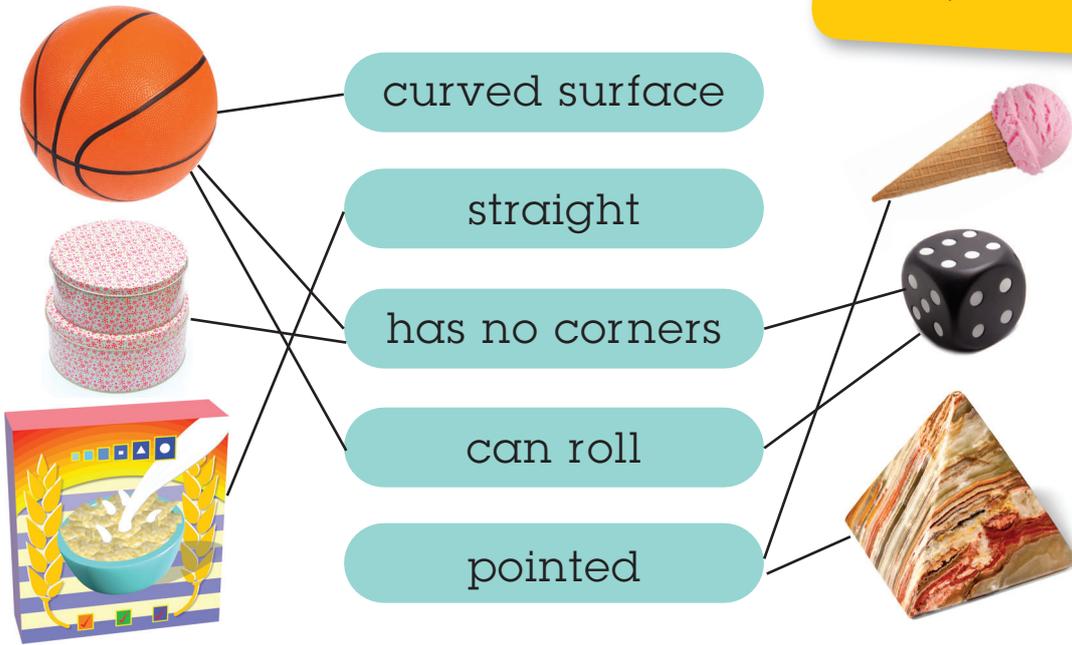


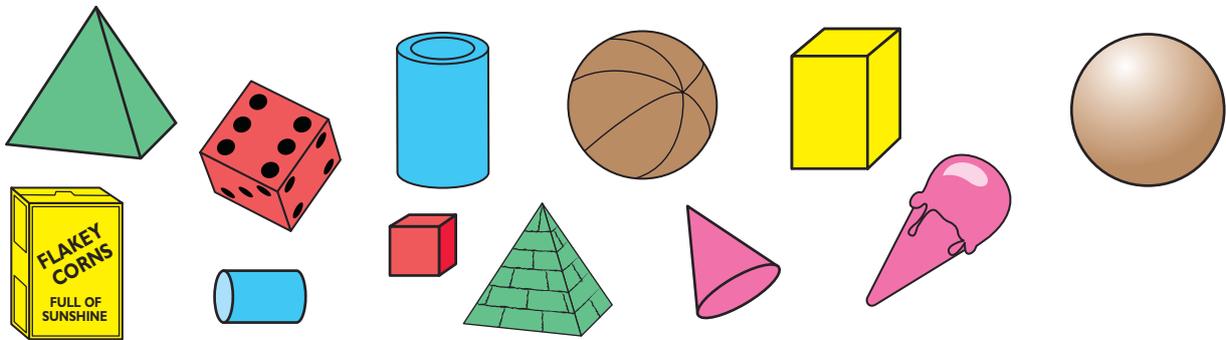
# Matching 3D objects

1 Draw lines from each picture to the words that best describe it.

Objects may have more than one description.



2 Colour the picture and its matching 3D object the same colour.



3 How could you sort these objects into two groups?

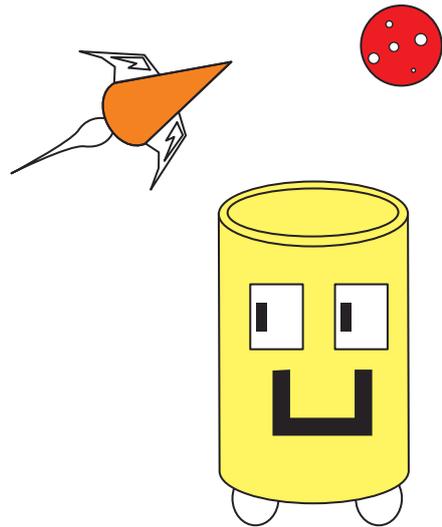
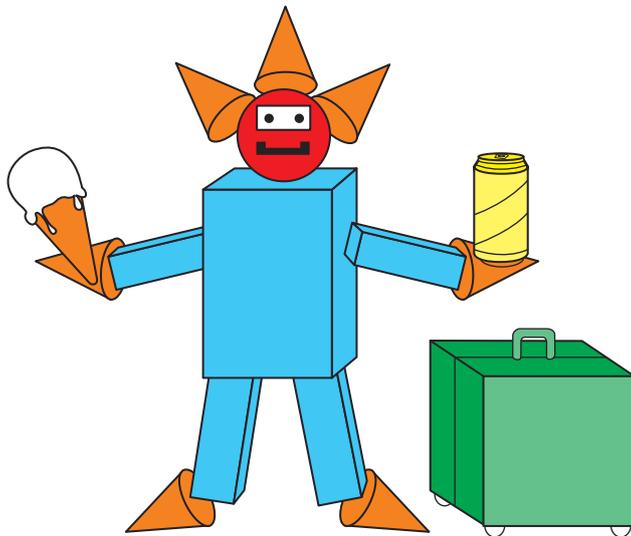
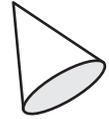
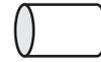
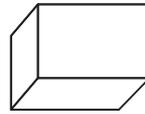
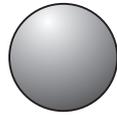
*Answers will vary.*

Tell your partner why you sorted them this way. Is there a different way to sort them?

MiB 1  
Card  
141

# Objects in the environment

1 Colour: **green** **red** **blue** **yellow** **orange**



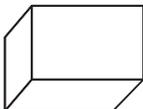
2 Use the word bank to help the robot name each 3D picture.



*cylinder*



*cube*



*rectangular prism*



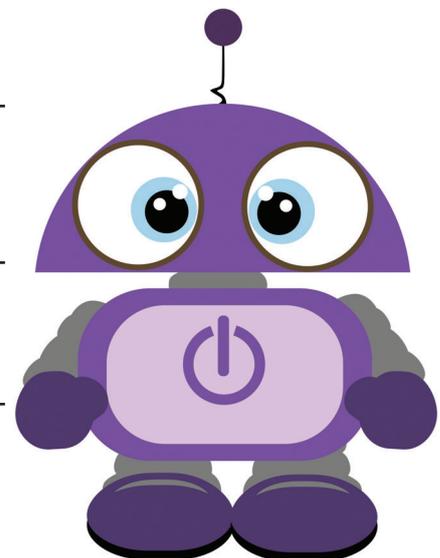
*cone*



*sphere*

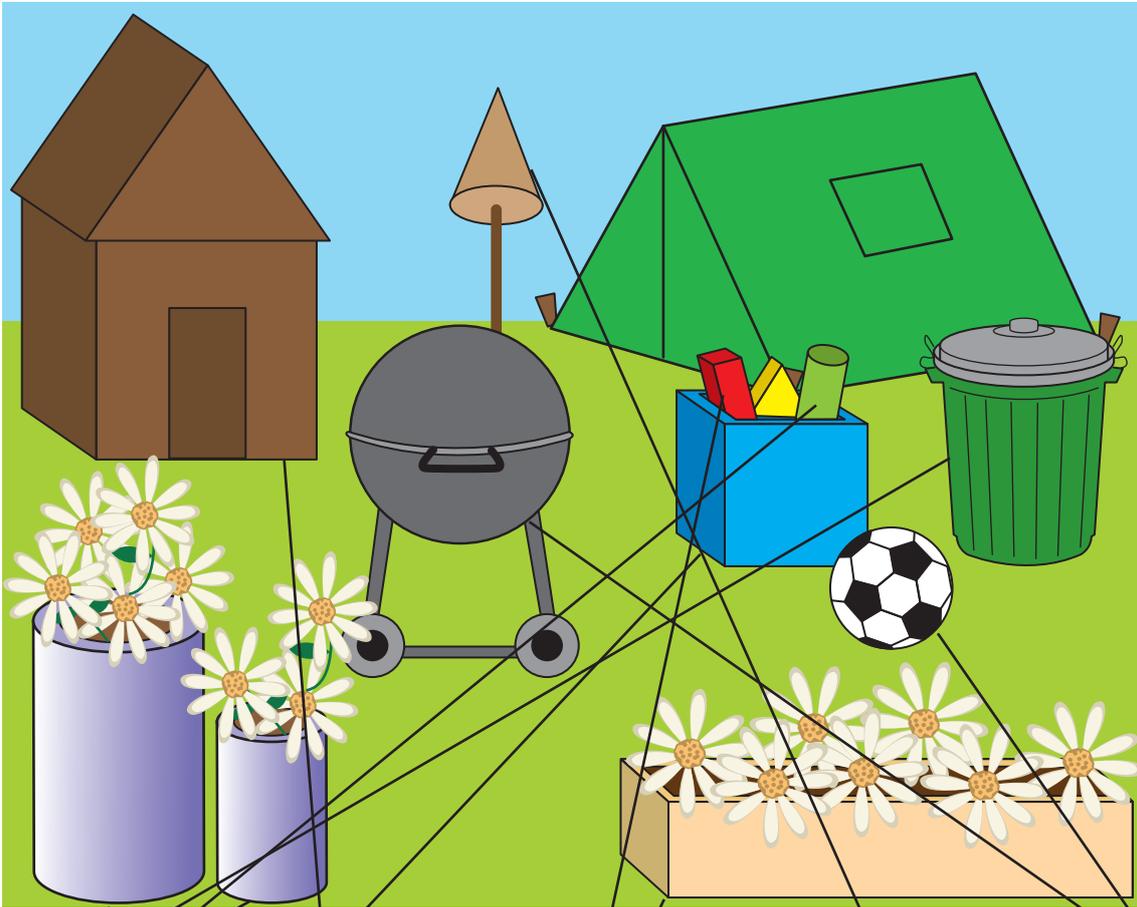
## Word bank

sphere  
cube  
cone  
rectangular prism  
cylinder



# Backyard 3D

1 Draw lines from the 3D objects in this picture to their names under it.



cylinder

cube

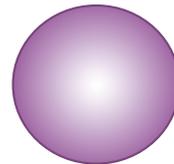
rectangular  
prism

cone

sphere

2 Think about your own backyard or a room in your home. Write an object for each shape. *Answers will vary.*

is a



is a

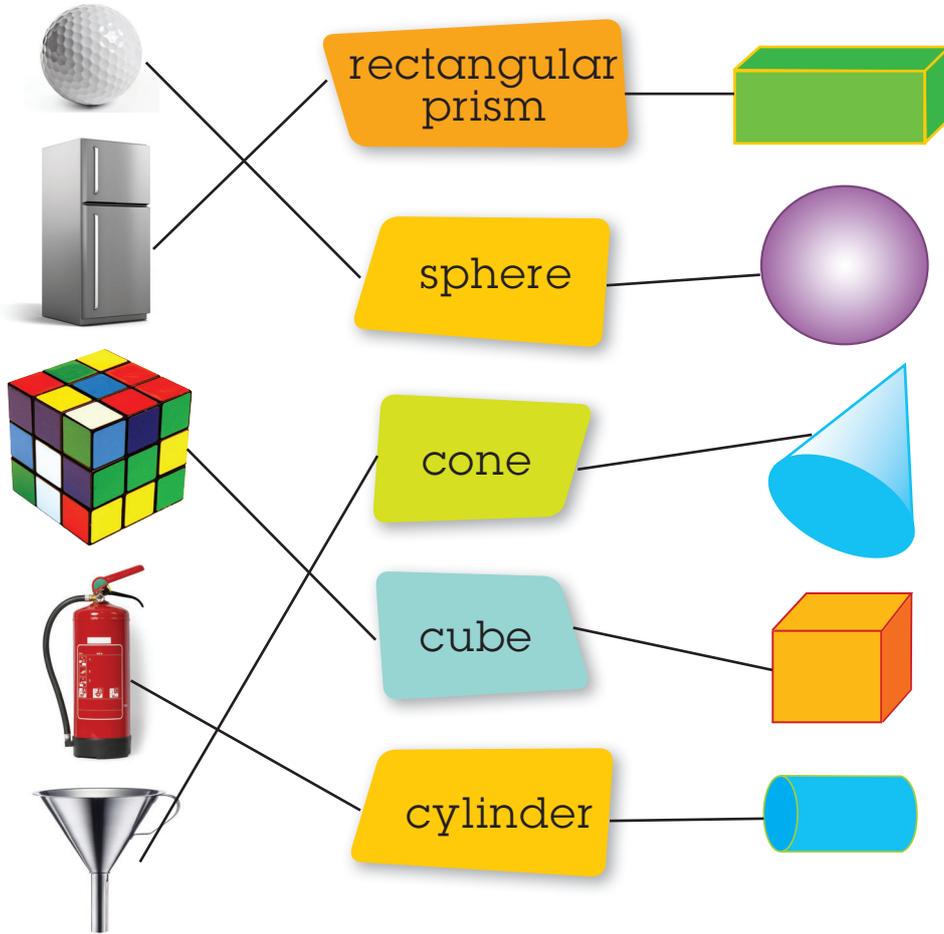


is a

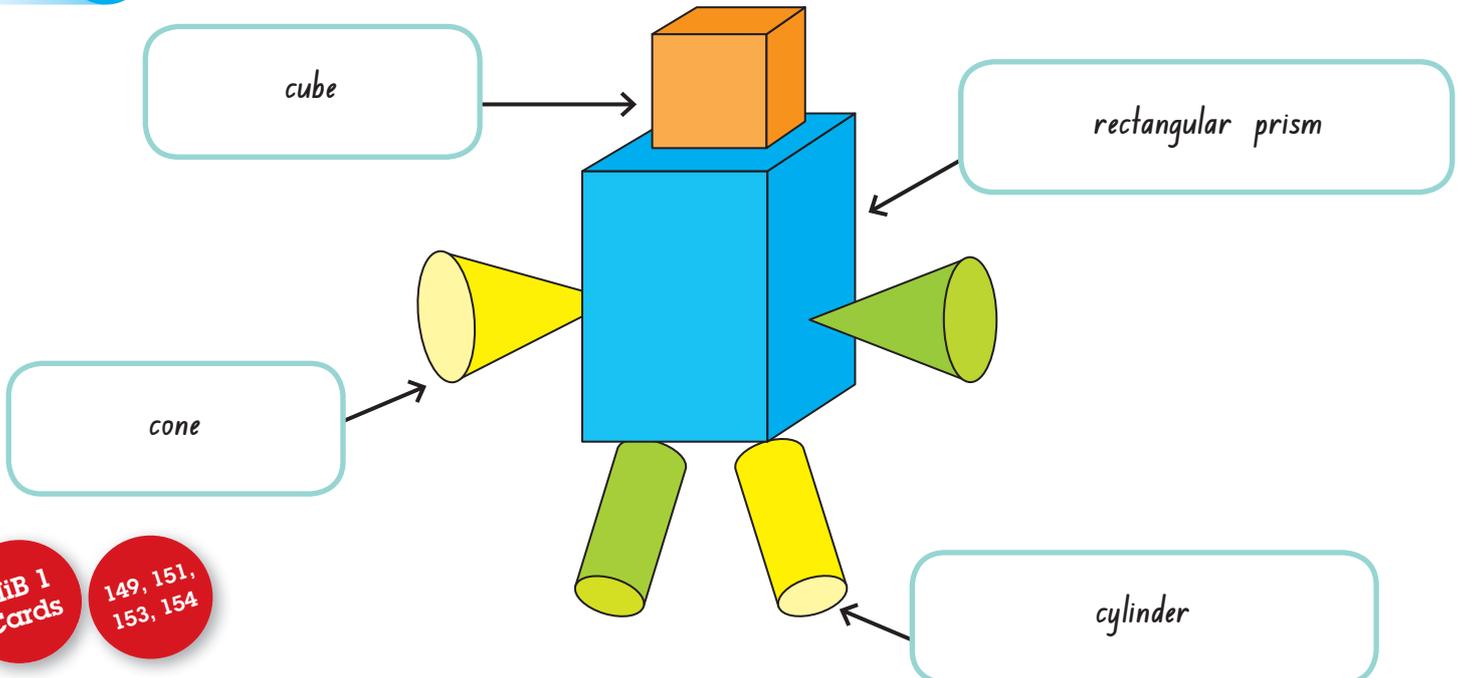


# Matching shapes

1 Match the 3D object and its picture with their name.



2 Label the 3D objects used to make the robot.



# Describing 3D objects

1 Match the objects with their best description.

I have 6 faces that are all the same shape.

I have 6 faces. Some of them are rectangles.

I have 2 circles at my ends and 1 curved surface.

I have 1 circle as my base and I have a pointy end.

I have 1 curved surface. I have no edges.



2 What is the difference between a cube  and a sphere  ?

*A sphere has no edges or corners.*

*A sphere has only one face.*

*A sphere has a curved surface.*

MiB 1  
Cards

143  
146, 148

Shape 91

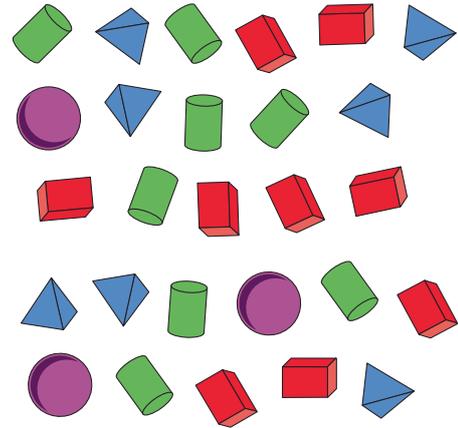
# 3D object maze

1 Colour the  **green**.

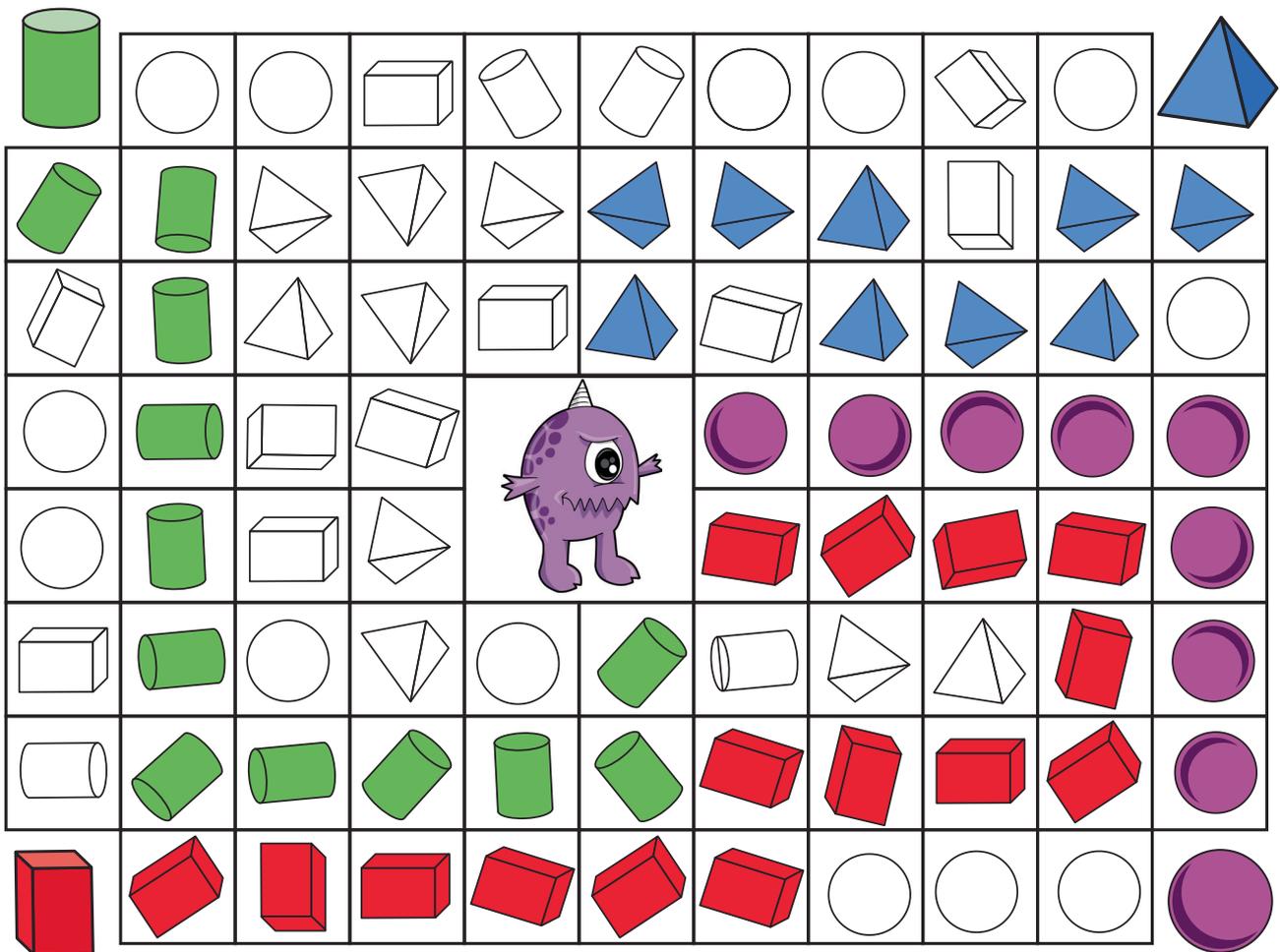
Colour the  **blue**.

Colour the  **red**.

Colour the  **purple**.



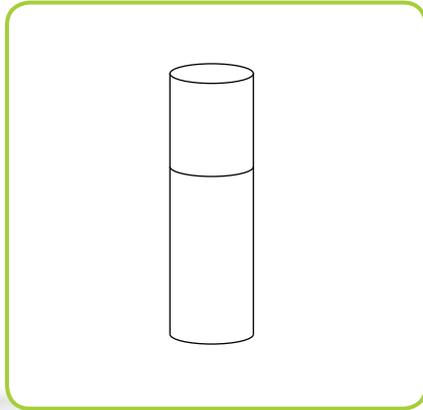
2 The shape monster can eat only one type of 3D object at a time. Colour a path to each of the four large 3D objects.



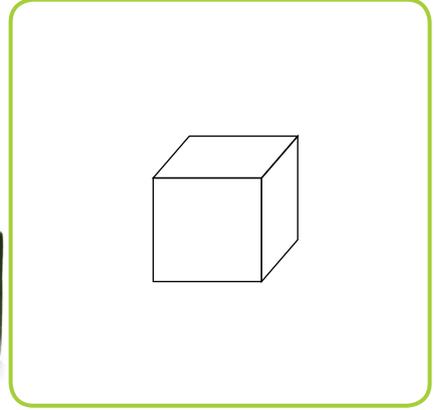
# Sketching objects

1 Sketch the 3D object shown in each picture.

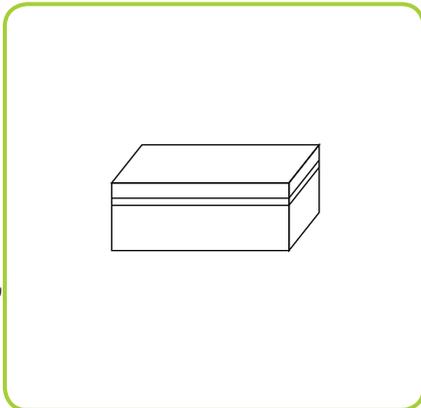
a



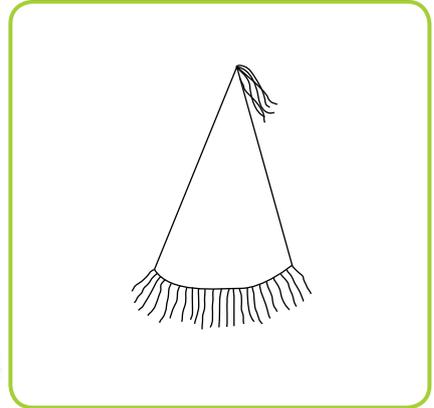
b



c



d

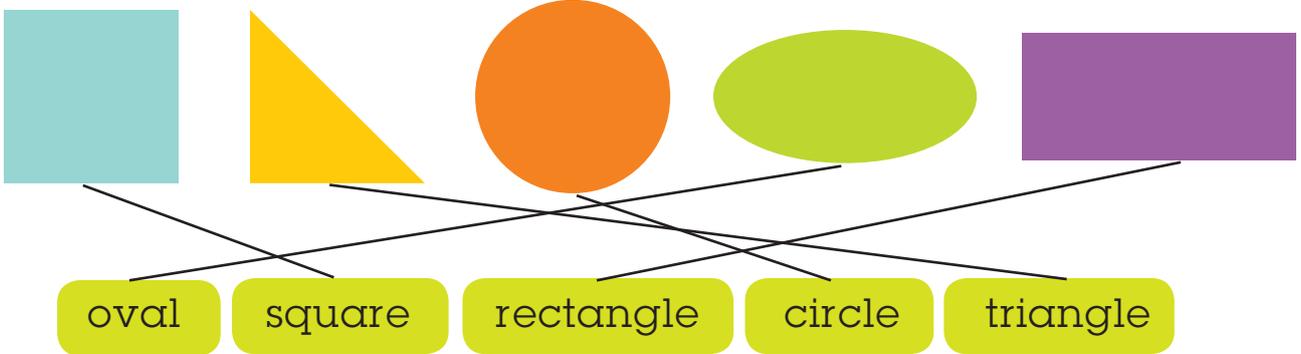


2 Use building blocks to make a model. Draw your model showing the blocks you used.

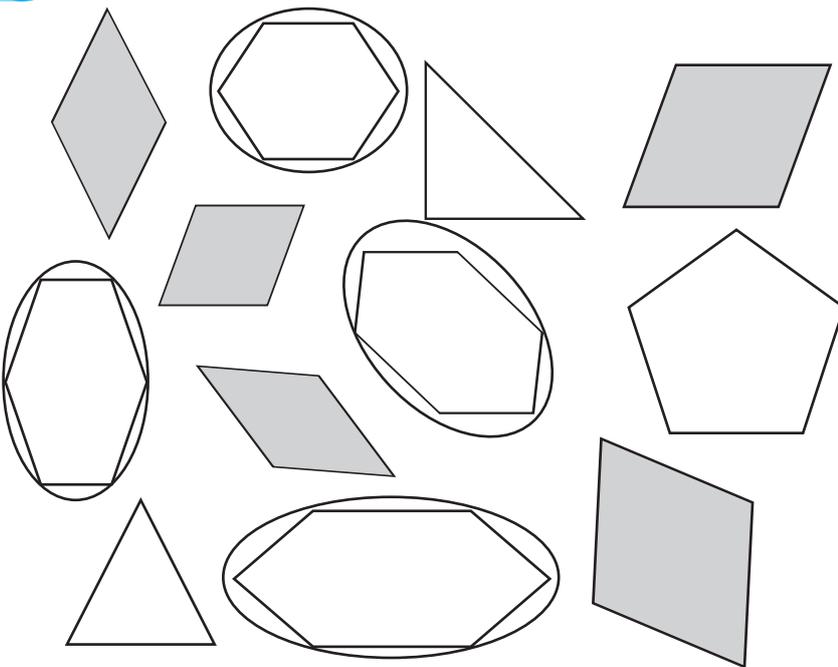
*Answers will vary.*

# Shapes

1 Use a line to match each shape with its name.



2 Colour the rhombuses. Circle the hexagons.



A rhombus has 4 equal sides. Its opposite angles are equal.



A hexagon has 6 straight sides and 6 corners.



3 What are some differences between a rhombus and a hexagon?

*A rhombus has four sides, a hexagon has six sides.*

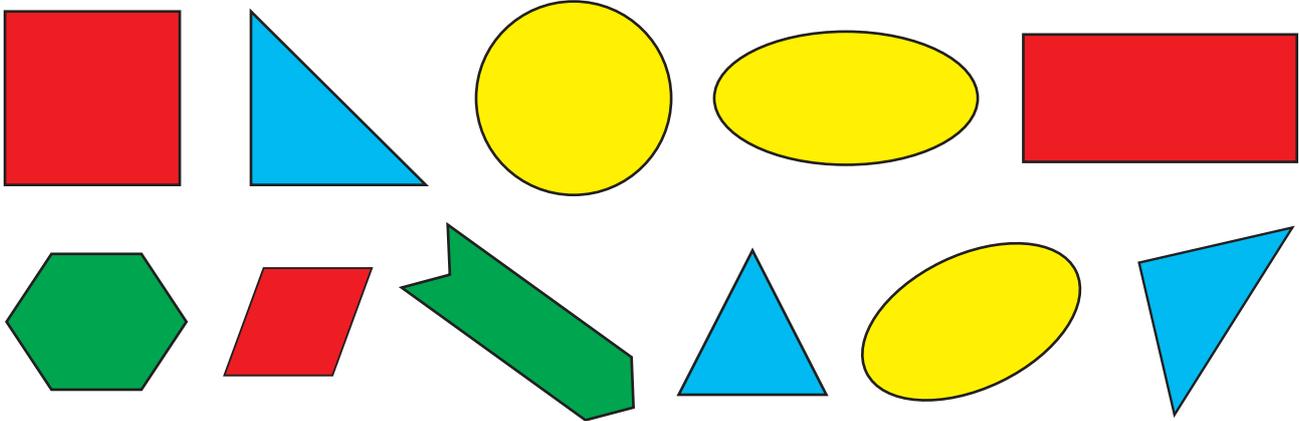
*The opposite angles are equal in a rhombus.*

*A rhombus has four corners, a hexagon has six corners.*

MiB 1  
Card  
126

# Looking at shapes

- 1 Colour the shapes with: 1 side – yellow; 3 sides – blue; 4 sides – red; 6 sides – green.



A shape with 3 sides is called a triangle.

A shape with 6 sides is called a hexagon.

- 2 Label the shapes in this picture using the word bank below.

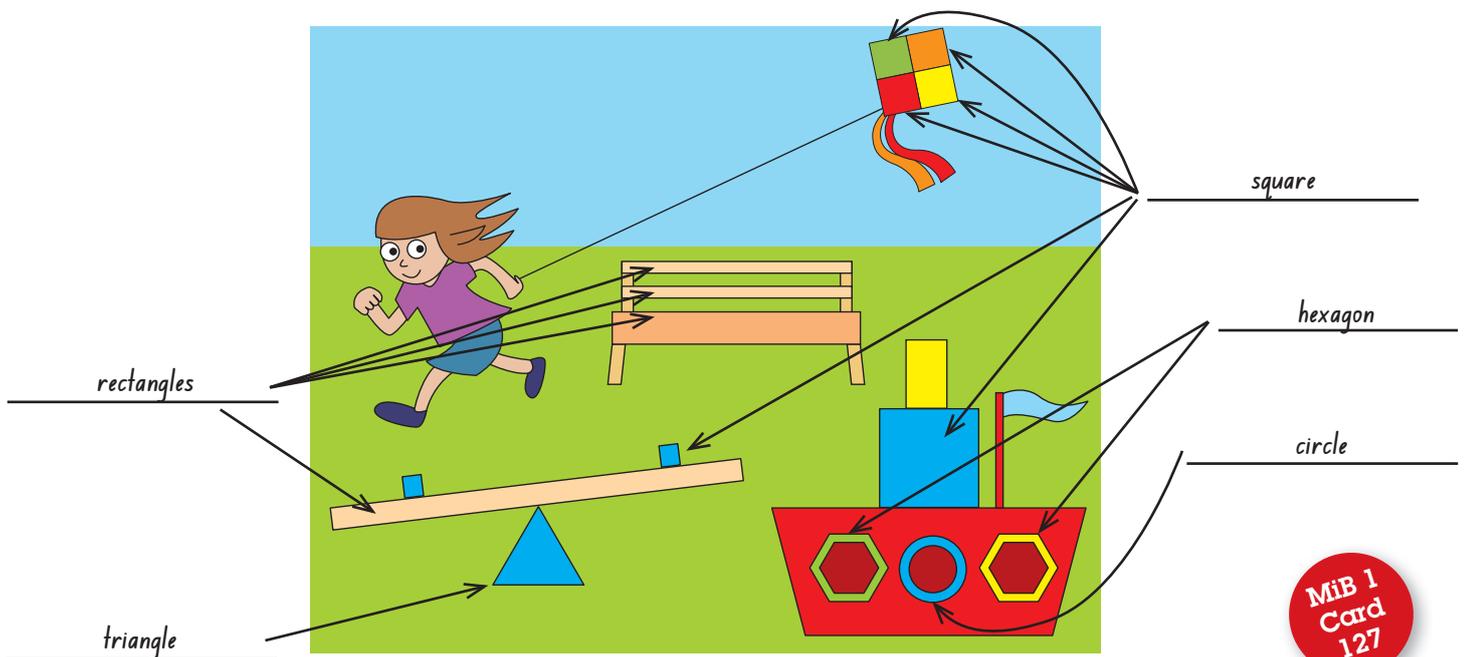
hexagon

circle

triangle

rectangle

square

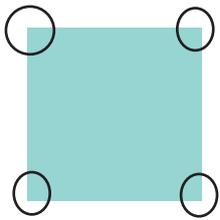


MiB 1  
Card  
127

# Features of shapes

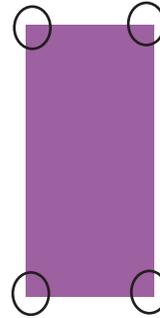
**1** Circle the corners on these shapes as shown. Write how many corners and how many sides for each.

Corners are also known as angles.



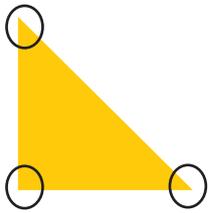
4 corners

4 sides



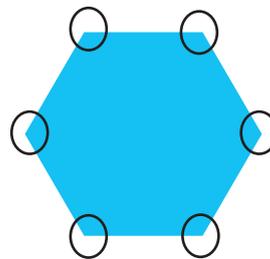
4 corners

4 sides



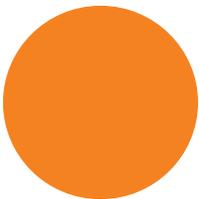
3 corners

3 sides



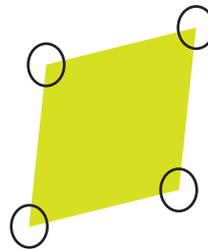
6 corners

6 sides



0 corners

1 sides



4 corners

4 sides

**2** Write the names of the above shapes that have:

**a** 4 sides square, rectangle and rhombus

**b** 3 corners triangle

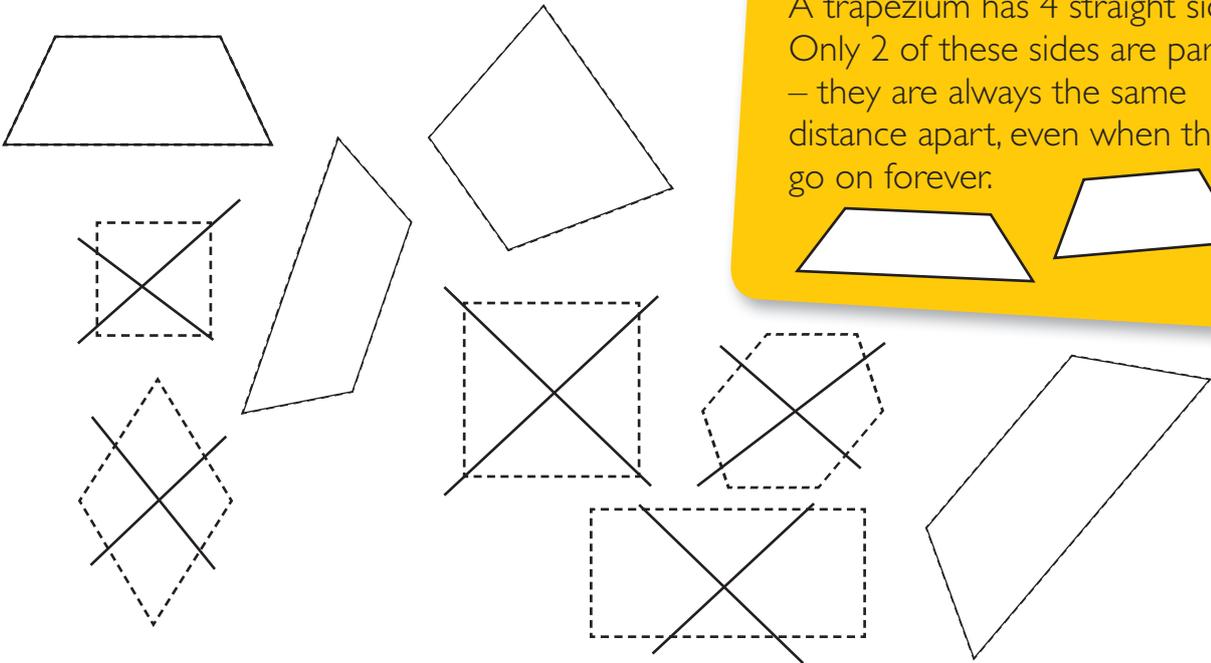
**c** no corners circle

**d** 6 sides hexagon

Look for some of these shapes around the classroom. Tell a friend where you have found shapes and name them.

# Trapeziums

- 1 Trace the shapes that are trapeziums. Cross the shapes that are not.

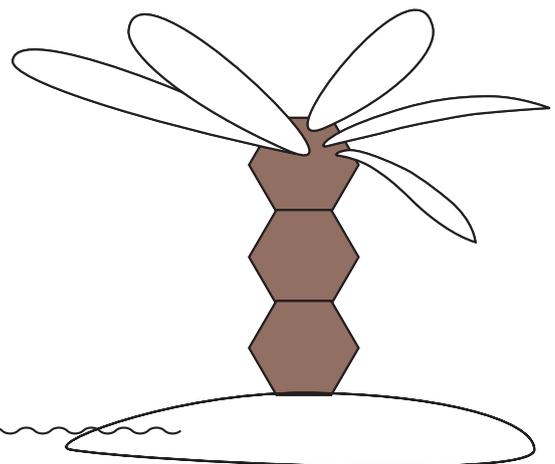
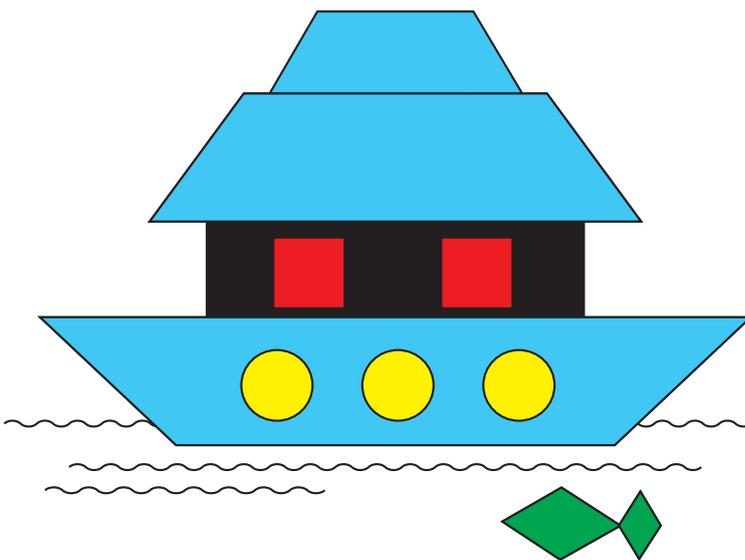


A trapezium has 4 straight sides. Only 2 of these sides are parallel – they are always the same distance apart, even when they go on forever.



- 2 Trace and colour each shape.

Circles – **yellow**; hexagons – **brown**; trapeziums – **blue**; rectangles – **black**; rhombuses – **green**; squares – **red**

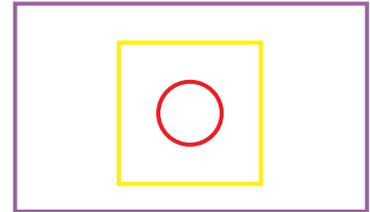


How are circles and hexagons different from the other four shapes?

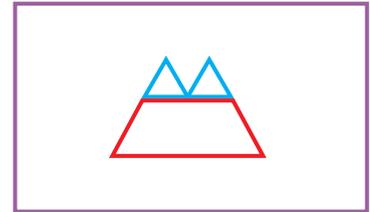
# Shapes in flags

1 Draw flags using these shapes.

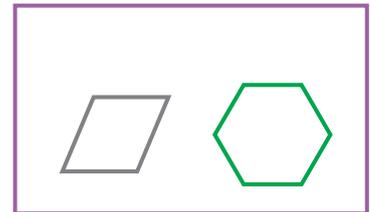
A red circle inside a yellow square



Two blue triangles above a red trapezium



A green hexagon next to a black rhombus



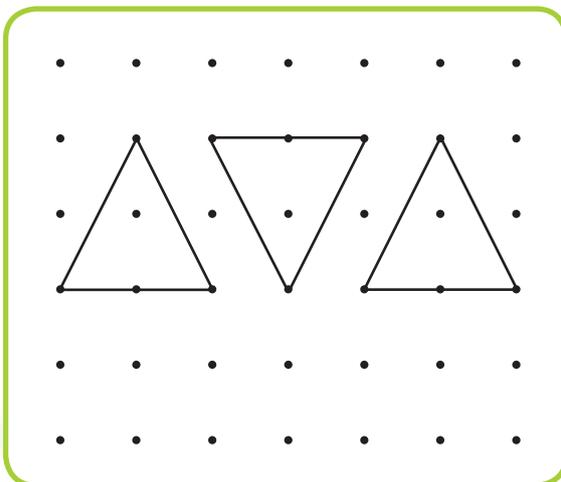
2 Write the shapes you can see in each flag.



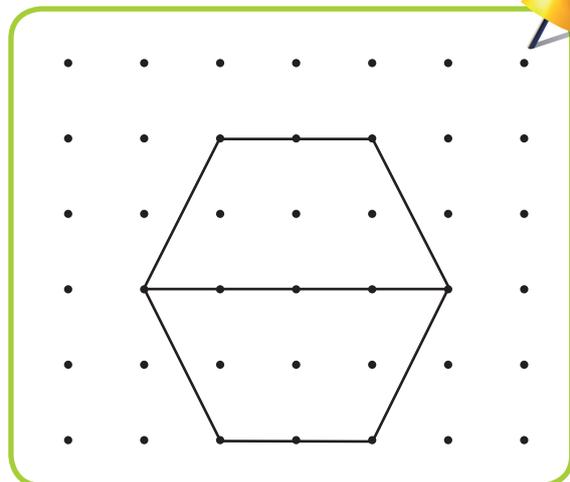
*rectangle, rhombus, circle*

3 Make a pattern using each shape on a geoboard. Record what it looks like on the grids below.

triangle



trapezium



MiB 1  
Cards  
128, 140

# Naming shapes

1 Circle the shape name that best matches the picture.



square  
circle  
triangle  
rhombus



rectangle  
circle  
hexagon  
trapezium



triangle  
rectangle  
trapezium  
rhombus



square  
triangle  
hexagon  
rectangle

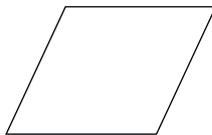
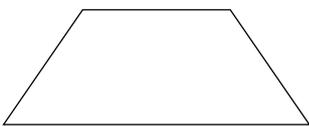


circle  
square  
trapezium  
hexagon



trapezium  
hexagon  
triangle  
rectangle

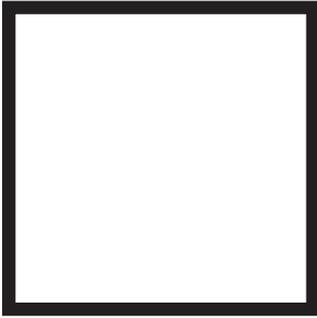
2 Draw a trapezium and a rhombus.



Explain to a friend how these two shapes are different and similar.

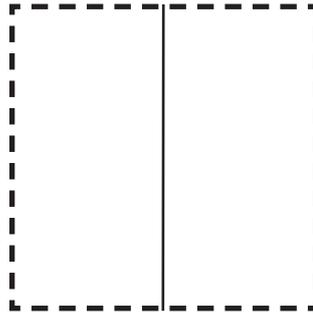
# Making shapes

- 1 Trace the square twice onto a piece of paper and cut around it. Fold each piece in half to make different shapes. Unfold and glue onto your page. What shapes are made with the folds?



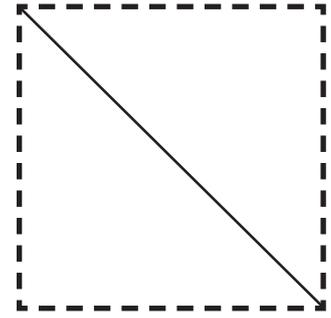
This has 1

square



This has 2

rectangles



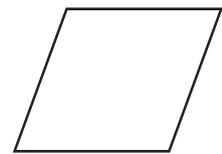
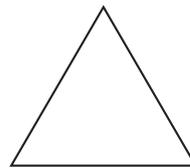
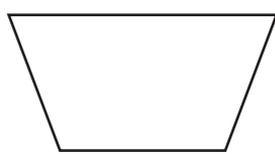
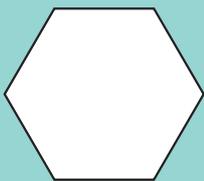
This has 2

triangles

- 2 Use pattern blocks to help you fill out the table.

Make

Using



How many?

2

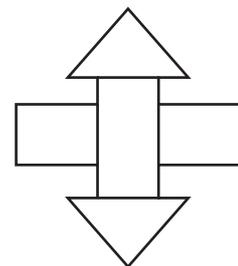
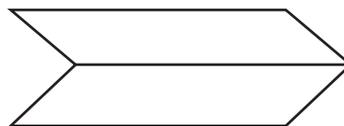
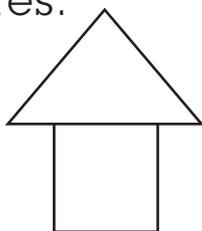
How many?

6

How many?

3

- 3 Draw lines to show what shapes might make these pictures.



MiB 1  
Card  
158

# Symmetry



1 Do these pictures have a line of symmetry showing? Answer yes or no.



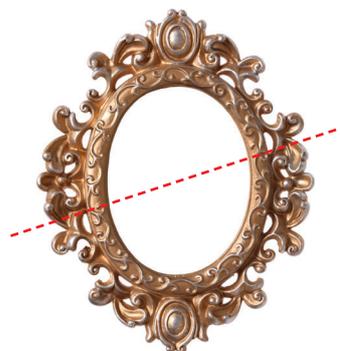
yes



no

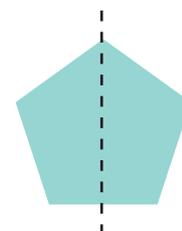
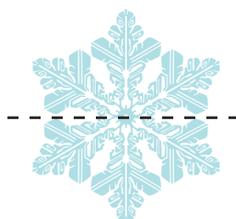
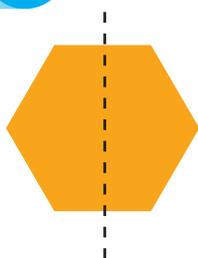


yes



no

2 Draw a line of symmetry on these shapes and pictures.



Hint: Use a square piece of paper to help you.

3 How many different lines of symmetry does a square have?

4

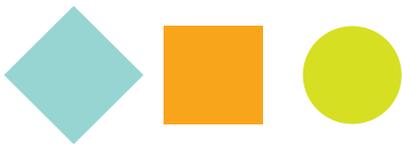
Can a clockface with numbers have a line of symmetry?

Discuss why or why not with a friend.

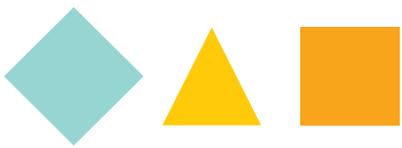
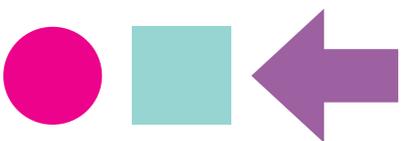
MiB 1  
Cards  
159, 160

# Patterns in symmetry

**1** Place a tick in the box if the pattern is symmetrical. Place a cross if it is not.

			<input checked="" type="checkbox"/>
			<input checked="" type="checkbox"/>
			<input type="checkbox"/>

**2** Complete the symmetrical patterns.

If a pattern is symmetrical it looks like it has been flipped and is a mirror image of itself.

**3** Make two of your own symmetrical patterns using pattern blocks. Draw them. *Answers will vary.*



# Where is it?

1 Use words from the word bank to make the sentences true.



## Word bank

below  
above  
between  
next to  
behind  
on top of  
in front of

- a The vet is above the hairdresser.
- b The musician is below the firefighter.
- c The office worker is between the vet and the firefighter.
- d The hairdresser is next to the pilot.

2 Complete these sentences to match the picture.



The baby is

in front of

the woman.



The boy is

on top of

the books.



The man is

behind

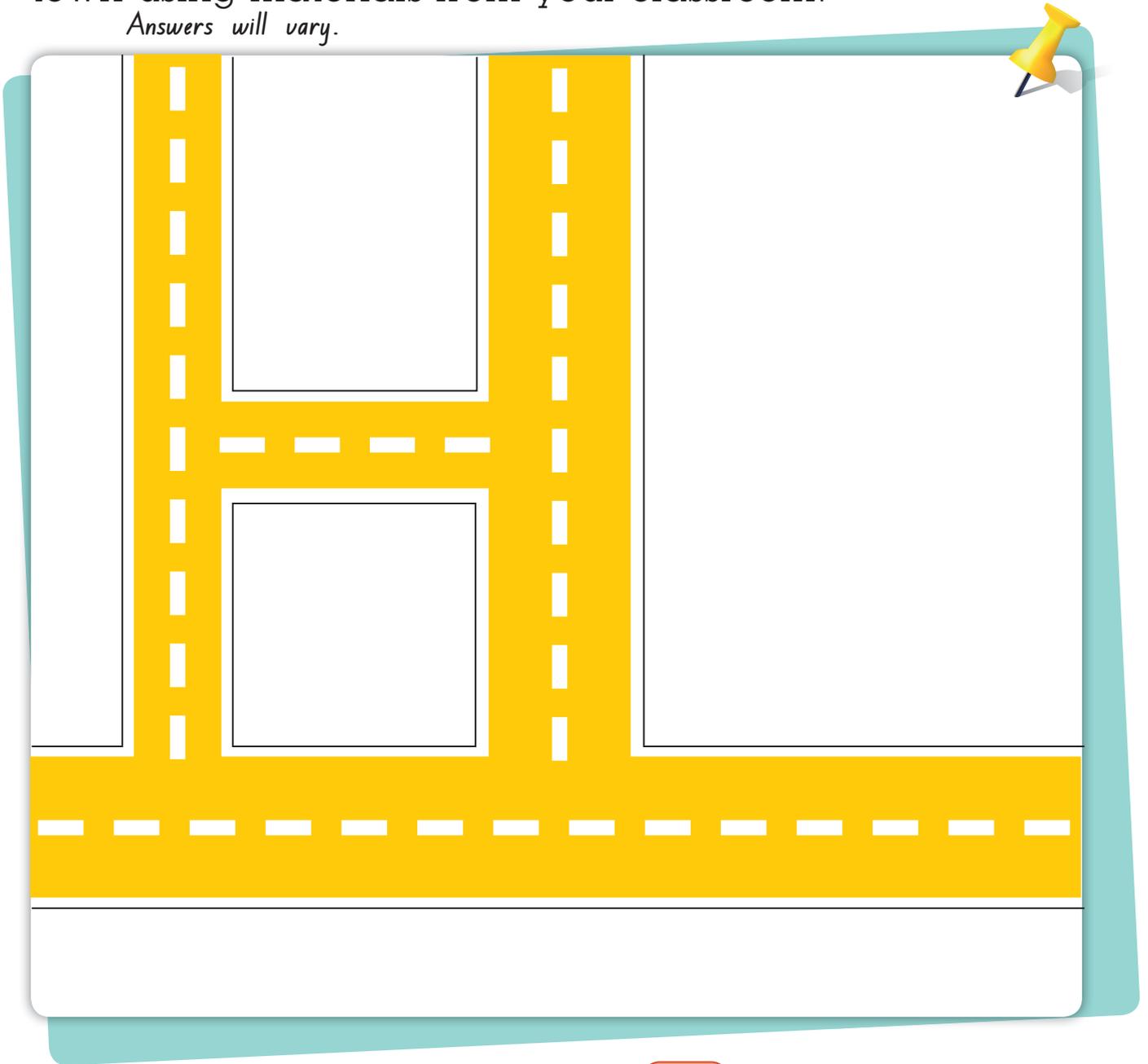
the computer.

MiB 1  
Card  
165

## Building a town

Work with a group of students. Draw two houses, a fire station, a supermarket, a school, a church and a park on this map. Make a model of your town using materials from your classroom.

*Answers will vary.*



Write a set of instructions to get from the fire station to the church.

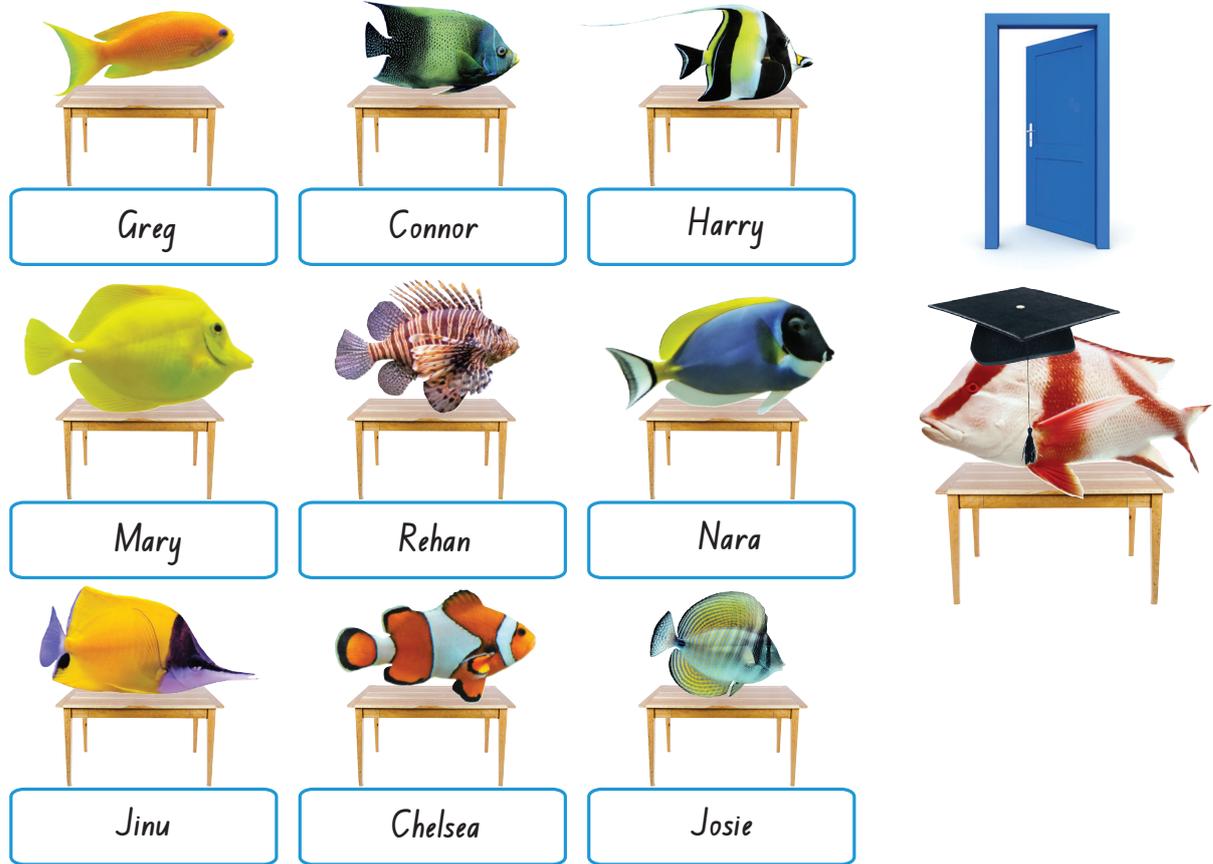


Explain how to get from one place to another.



# School of fish

Look at this school of fish. Read the clues to find the name of each fish. Label them.



Harry is closest to the door.

Connor is sitting behind Harry and behind Connor is Greg.

Rehan is sitting next to Connor.

Nara is sitting in the middle desk in the front row.

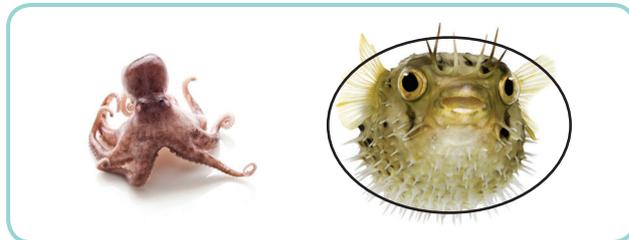
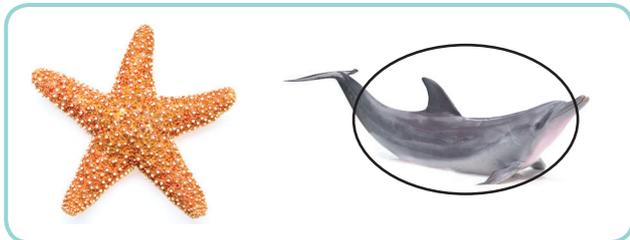
Mary is sitting behind Rehan and next to her on her right is Jinu.

When the teacher looks at the class, she sees Josie to her left in the front row.

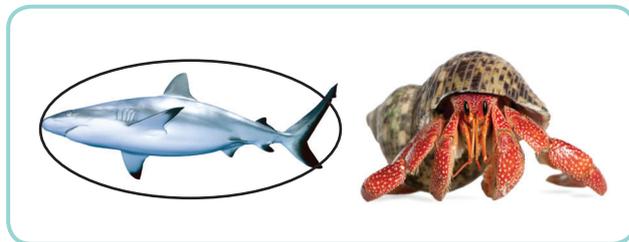
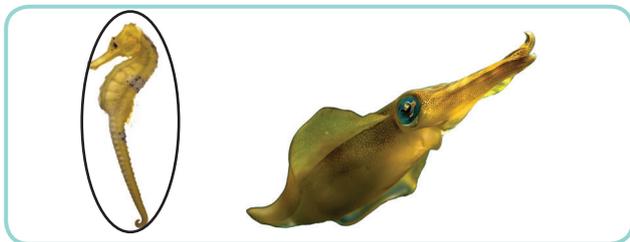
Chelsea is sitting between Jinu and Josie.

# Left or right?

1 Circle the animal on the **right** in each pair.



2 Circle the animal on the **left** in each pair.



3 Colour the correct word.



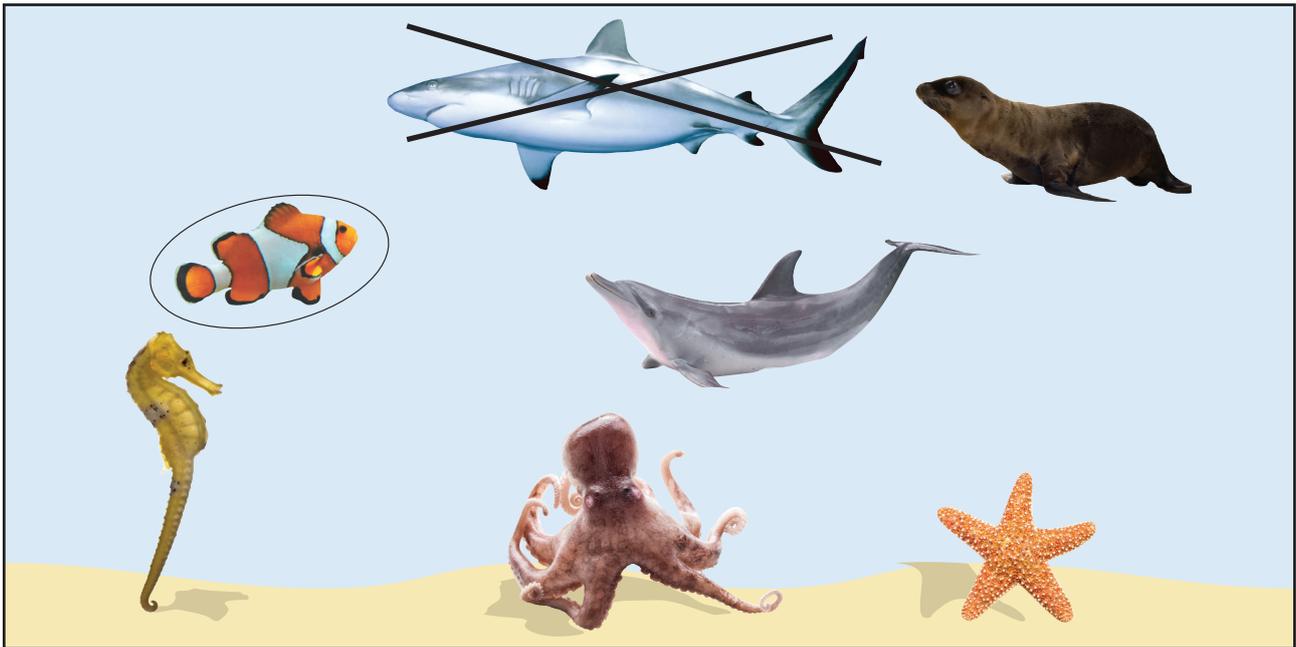
The fish is on the  left  right of the mermaid.

The dolphin is on the  left  right of the mermaid.

The octopus is on the  left  right of the mermaid.

Draw a starfish on the right of the mermaid.

# Position in the sea



1 What is **above** the seahorse?

*fish*

What is in the **bottom right-hand corner**?

*starfish*

What colour is the animal in the **bottom left-hand corner**?

*yellow*

2 Circle the second animal from the **left**.

Cross out the highest animal.

Draw a dolphin **above** the octopus but **below** the shark.

3 Who am I?

I am on the right-hand side of the picture.

I am close to the top right-hand corner.

I am next to the shark.

I am the \_\_\_\_\_ *seal*.

MiB 1  
Cards  
163,164

# Find the treasure

1 Look at the picture.



What is the thing on the right?

parrot

What is the thing on the pirate's right?

treasure box

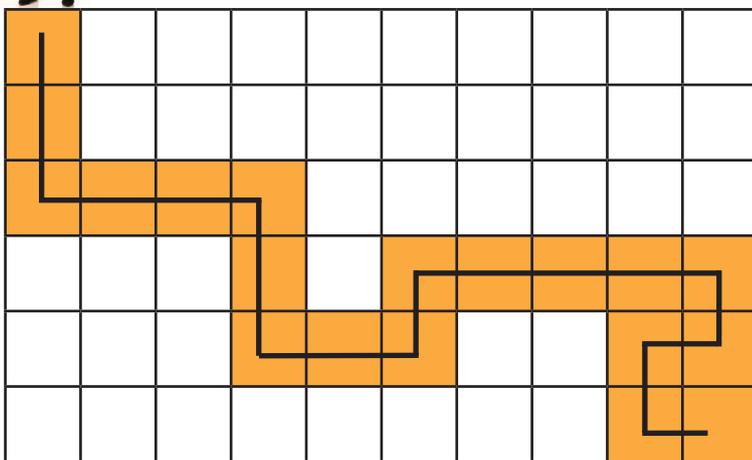
Which thing is closer to the pirate?

The one on her right

The one on her left

How do you know? The treasure box is only five coins away from the pirate.

2 Follow the pirate's path to the treasure.



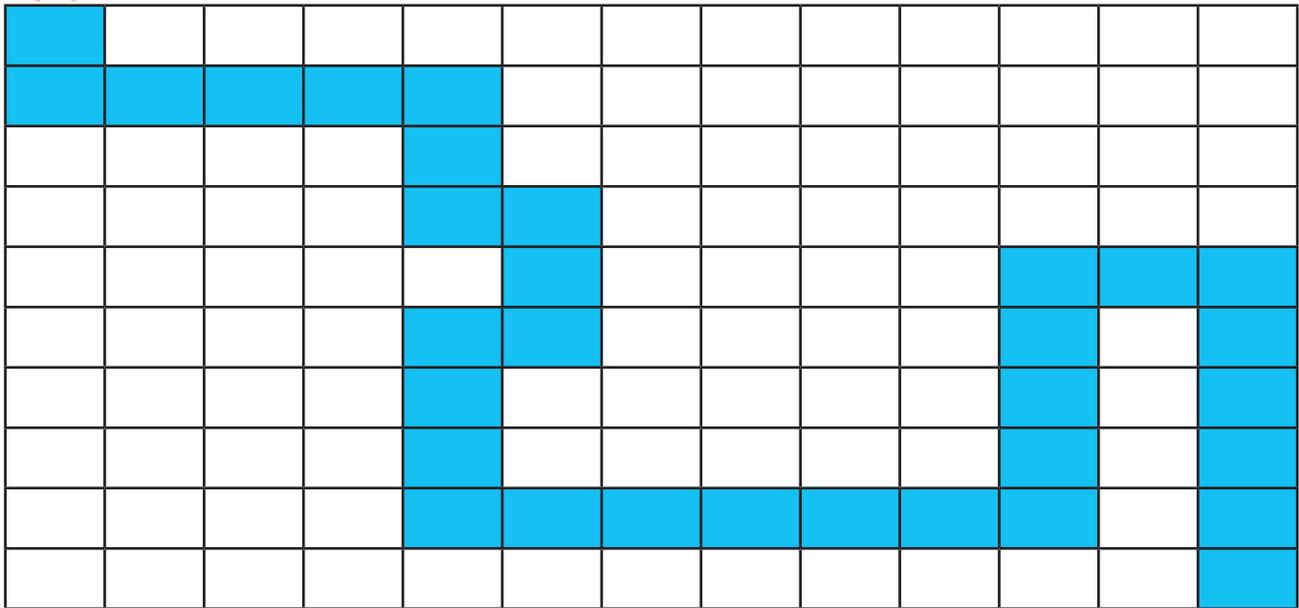
- Move 3 down.
- Move 3 to your right.
- Move 2 down.
- Move 2 to your right.
- Move 1 up.
- Move 4 to your right.
- Move 1 down.
- Move 1 to your left.
- Move 1 down.
- Move 1 to your right.

# Way home

1 Shade an interesting path from the pirate to his ship.



Answers will vary.



2 Describe your path. It has been started for you.

Go down two spaces.

Go right four spaces.

Go right six spaces.

Go down two spaces.

Go up four spaces, then right two spaces.

Go right one space.

Go down five spaces and you

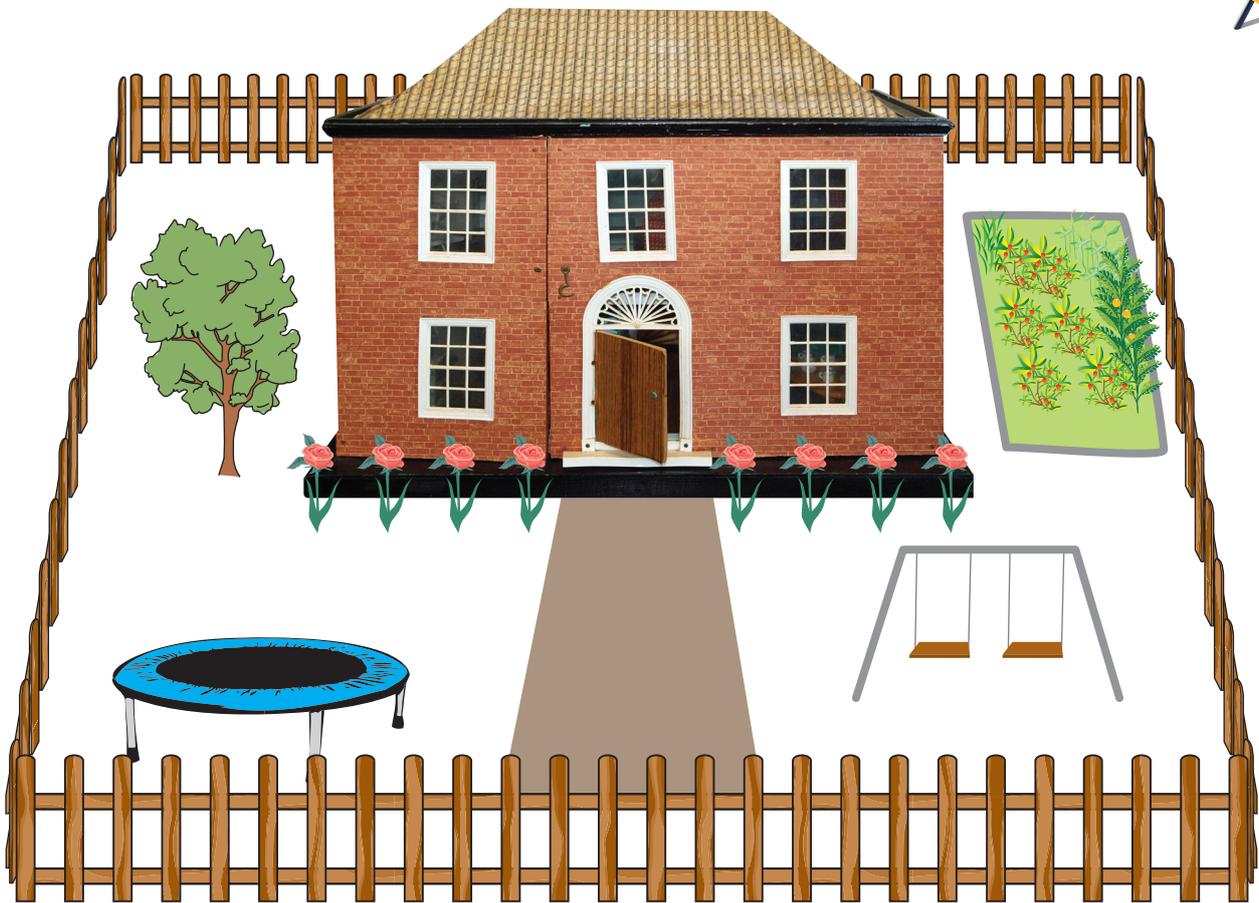
Go down two spaces.

have reached the pirate ship!

Go left one space, then down three spaces.

## Following instructions

Complete this picture of a front yard.



Draw:

a tree to the left of the house

a straight path leading from the front door to the front fence

a swing set on the right-hand side of the path

a trampoline in the bottom left-hand corner of the yard

a vegetable garden to the right of the house

a garden of red flowers in front of the house.



Draw an aerial view of your backyard or bedroom and explain to a friend where everything is positioned.

# Possible and impossible

1 Colour the correct word to describe each picture.



possible

impossible



possible

impossible



possible

impossible



possible

impossible

2 Describe the chance of these things happening at your house.

will happen

might happen

won't happen



A hot-air balloon will land in your backyard.

*might happen*



You will find money in the sofa.

*might happen*



You will eat dinner this week.

*will happen*

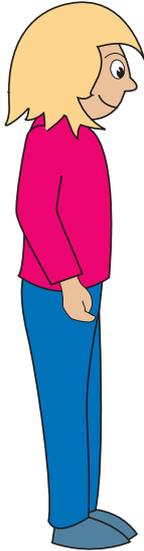


There will be a rock concert in your kitchen.

*won't happen*

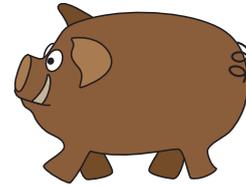
# How likely?

1 Is Nina likely to keep any of these animals as a pet?



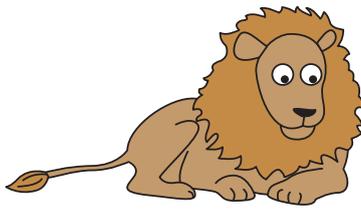
likely

unlikely



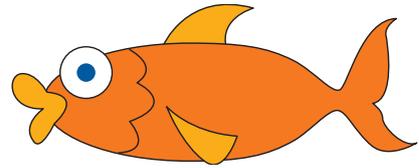
likely

unlikely



likely

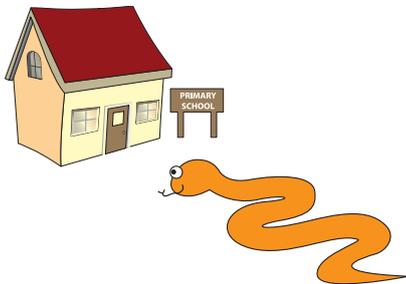
unlikely



likely

unlikely

2 Colour the correct word to match each picture.



A snake visits your classroom.

certain

likely

unlikely

impossible



You read a book in class.

certain

likely

unlikely

impossible



Your principal turns into an ape.

certain

likely

unlikely

impossible



You get a lunch break at school.

certain

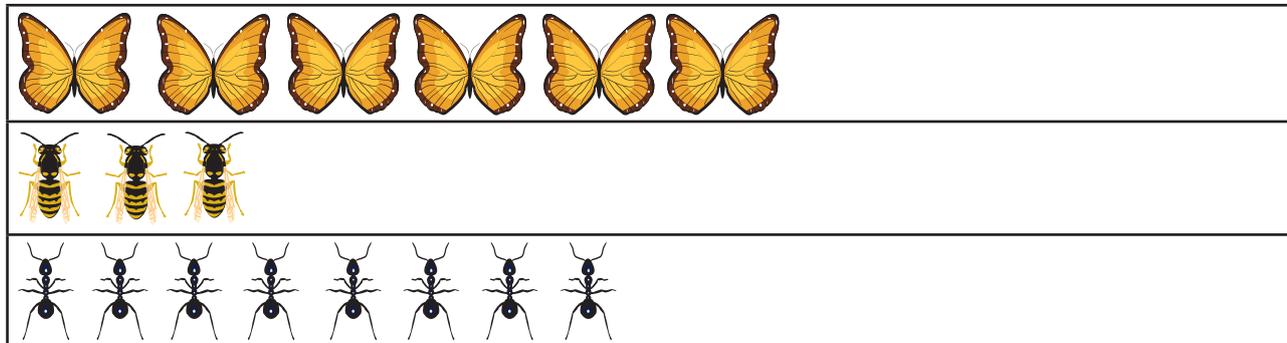
likely

unlikely

impossible

# Insect problems

Ming made a graph of the creatures he caught in his garden.



1 Use the graph to fill in the boxes.

a There were  butterflies.

b There were  bees.

c There were  ants.

2 Use a number sentence to answer these questions.

a How many more ants were there than bees?

$$8 - 3 = 5$$

b 2 butterflies flew away. How many were left?

$$6 - 2 = 4$$

c How many creatures did Ming catch in total?

3 Write your own addition or subtraction question using the graph. *Answers will vary.*

# Organising animals

1 Some families on a trip to the zoo saw these animals. Record each animal they saw by using tally marks.

Tally marks are an easy way of counting by 5s.



Giraffes  Monkeys  Tigers 
  
 Elephants  Zebras

2 Colour the circles to represent the tally marks you made.

Colour in one circle for each tally mark.

Giraffe

Monkey

Tiger

Elephant

Zebra

3 Which animal is greater in number?

Monkeys

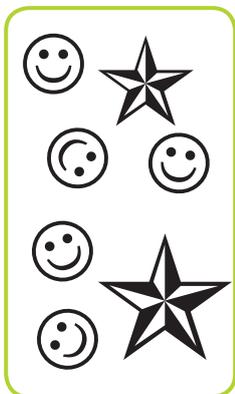
How many more tigers than giraffes?

2

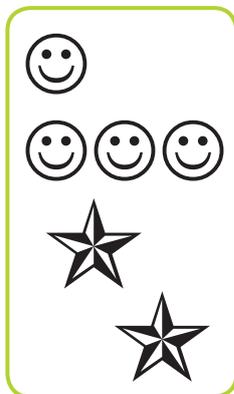
MIB 1  
Card 81

# Simple graphs

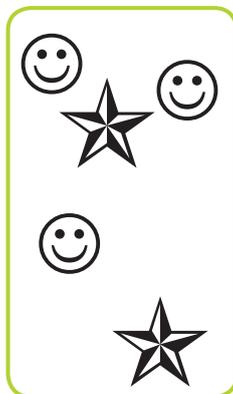
1 Each student used a stamp to represent their favourite animal at the zoo.



Giraffe



Elephant



Monkey



Tiger



Zebra

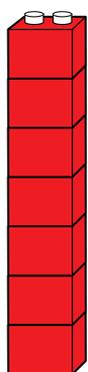
Are all the stamps the same size?  Yes  No

Are the spaces between the stamps the same?  Yes  No

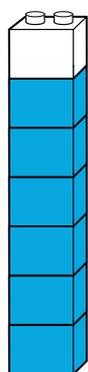
Is this the best way to show the number of animals?  Yes  No

2 Colour the blocks to show more clearly the same information the students showed with their stamps.

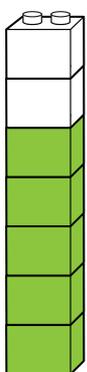
## Favourite zoo animals



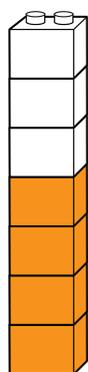
Giraffe



Elephant



Monkey



Tiger



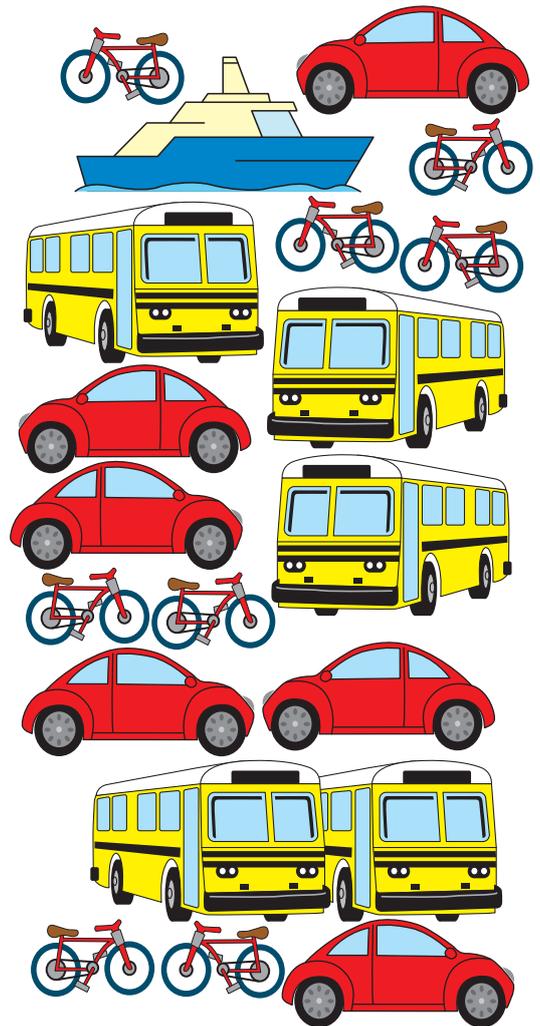
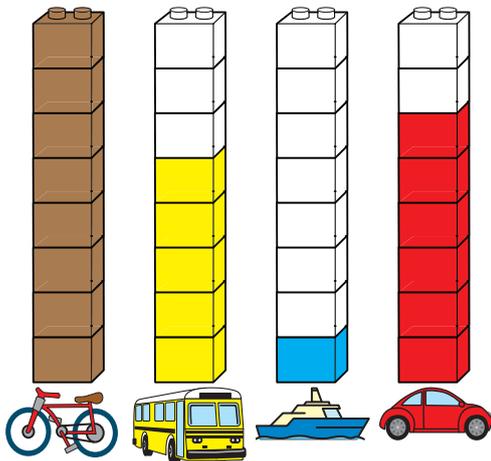
Zebra

Compare the two graphs. Discuss why this graph is easier to read.

# Graphing transport

- 1 Look at the pictures on the right. Each picture shows how a family travelled to the zoo. Count the pictures and colour the columns below to show how the families travelled to the zoo.

## How families travelled to the zoo



- 2 Which type of transport was used the most?

bicycle

Which transport was used least?

boat

How many families travelled by car?

6

How many more families travelled by car than by bus?

1

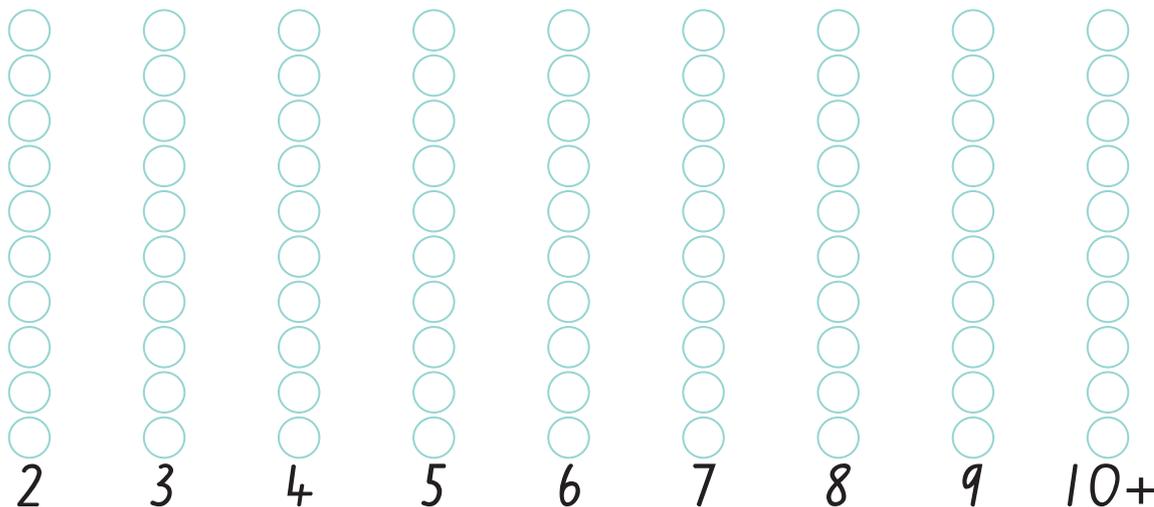
- 3 If there were two children in each car, how many children travelled to the zoo by car?

12

MiB 1  
Cards  
82, 84

# Collecting data

1 Choose ten students from your class. Ask them how many letters they have in their first name. Colour in a circle to show each person's answer. *Answers will vary.*



2 Answer these questions about the graph.

a How many people had 3 letters in their name?

\_\_\_\_\_

b How many students had more than 7 letters in their name? \_\_\_\_\_

3 Make up two questions about the data you collected, and give their answers.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Word bank

most  
least  
popular  
how many  
more  
less  
what  
which  
difference