

Day Three



The 'Talk Like an Expert' game

Now let's invent some facts about aliens. Imagine you are world expert on aliens and you are answering the interview questions below. Make up one fact for each question.

- ★ Start your answers with one of these generalisers. These are words that sum up things e.g. *most, all, some, many, a few*. For example:

Most aliens like cheese.

Where do aliens go on holiday?

What do aliens like to do to relax?

How to aliens travel to work?

Why do aliens live alone?



★ **Challenge:** Add on to your facts by using the adverb 'additionally'. Use it to start a NEW sentence to add on to your fact. For example:

Most aliens like cheese. Additionally, they also enjoy eating broccoli covered in marmite.

★ Rewrite your sentences below. Remember to use a capital letter to start, a comma after *additionally* and a full stop at the end of your sentences. Check you have two sentences.

_____ . *Additionally,* _____ .





★ Now write your own questions to ask an alien. Use the question words: *who, what, when, where* and *how*. Don't forget to end your sentence with a question mark.

Day Three

- <https://www.bbc.co.uk/bitesize/articles/zr93bdm>
- Follow the link to the BBC Bitesize page like the previous two days.
- Watch the video clip about rhyme and follow the instructions for Activity 3 – see if you can write another verse or two for one of the poems.
- We look forward to reading your creations!

Yesterday's Answers

Question 1 a): Shape A has an area of 9 squares (units).
Shape B has an area of 2 squares (units).

Question 1 b): Children should draw a shape with an area of between 2 and 9 squares.

Question 1: The area of Shape A is 5 squares.
The area of Shape B is 4 squares.
The area of Shape C is 6 squares.

Question 2:

Shape	Area
A	4 squares
B	5 squares
C	7 squares

- A → Area = 8 squares
B → Area = 3 squares
C → Area = 6 squares
D → Area = 5 squares
E → Area = 7 squares

2. a)

Shape	Area (squares)
A	5
B	4
C	9
D	6
E	9

b) Shapes C and E have the same area.

- The area of the piece of paper is 8 squares.
- He has not fitted the shapes together exactly so the squares do not completely fill the space.
- TABLE TOP

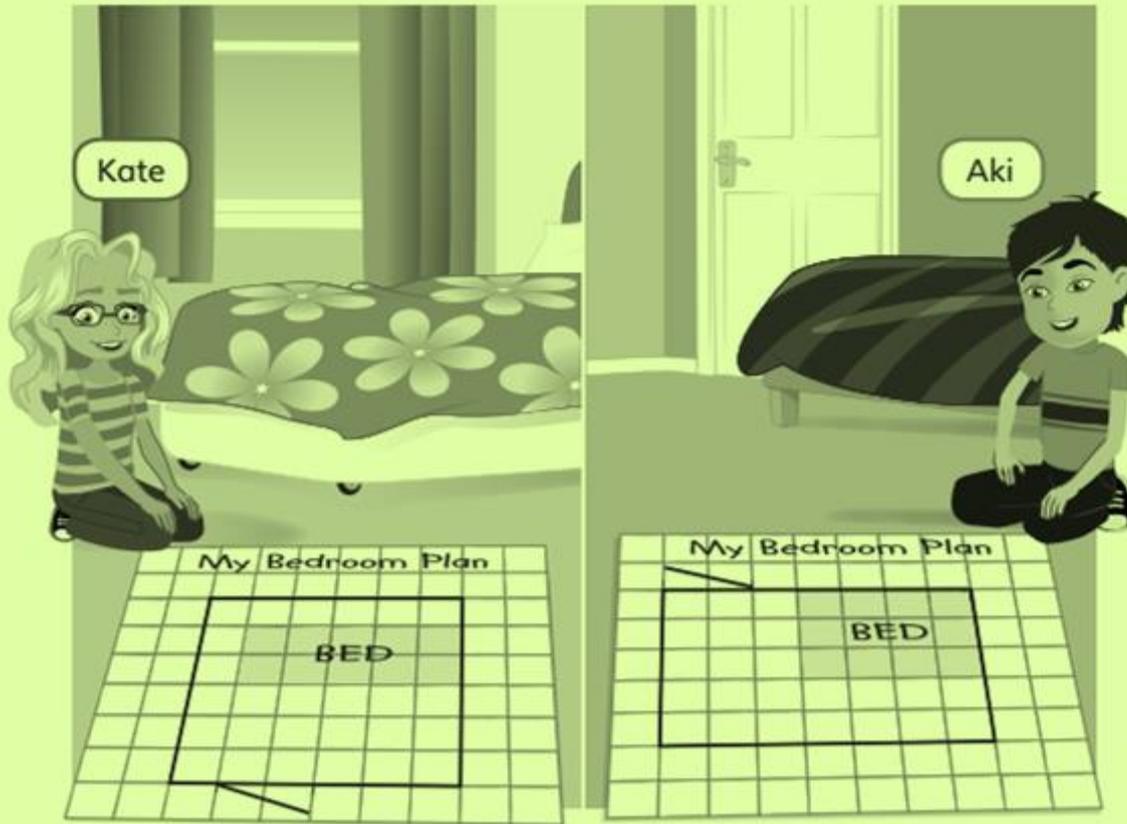
- a) 1, 4, 9, 16
b) 25, 36, 49
Each shape is a square and so has equal sides.
The sequence is the square numbers i.e. $1 \times 1 = 1$,
 $2 \times 2 = 4$, $3 \times 3 = 9$, $4 \times 4 = 16$, $5 \times 5 = 25$, $6 \times 6 = 36$,
 $7 \times 7 = 49 \dots$

Reflect

Explanations may vary; for example:
The area is the space a shape takes up and is measured in squares. The area of a shape can be found by counting the number of squares that can fit in it.

Lesson 23 – WALT: Find the area of Rectilinear shapes by counting squares continued.

Discover



Which parts of the shape need to be measured?
Why do you think the bedroom plans have been drawn on squared paper?

- Who has the larger bed?
- How much empty space do they both have in their bedroom?

Share

a) We can use squared paper to help find the area of different shapes.



I numbered each square to make sure I did not miss any.

1	2	3	4	5
6	7	8	9	10

Kate's bed has 2 rows of 5 squares.

1	2	3	4
5	6	7	8
9	10	11	12

Aki's bed has 3 rows of 4 squares.

12 squares is a larger area than 10 squares, so Aki's bed is larger.

I have thought of a way to use times-table facts to help.

1	2	3	4	5

$$2 \times 5 = 10$$

1	2	3	4

$$3 \times 4 = 12$$

b) Count the squares to find the area of the empty space.

1	2	3	4	5	6
7					
8					
9	10	11	12	13	14
15	16	17	18	19	20
21	22	23	24	25	26

1	2	3				
4	5	6				
7	8	9				
10	11	12	13	14	15	16
17	18	19	20	21	22	23

Kate has 26 squares of empty space in her bedroom.

Aki has 23 squares of empty space in his bedroom.

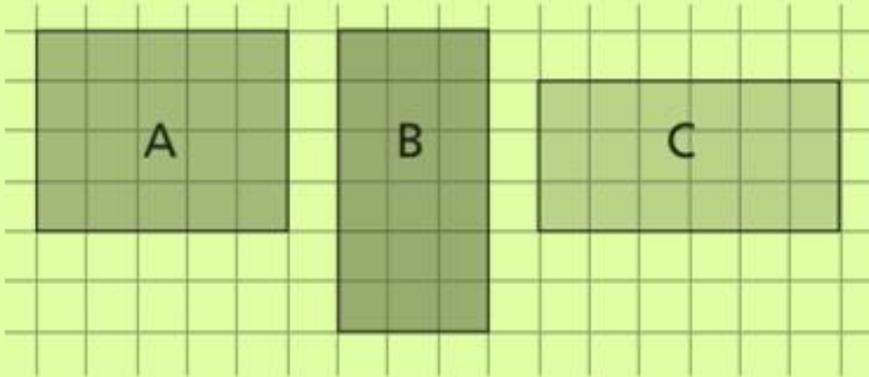


What makes a shape larger than another shape? Kate's bed looks longer than Aki's? Does that make it larger?

What can you do to find the area of different shapes? How many squares are there in one row? How many rows are there? How does this help

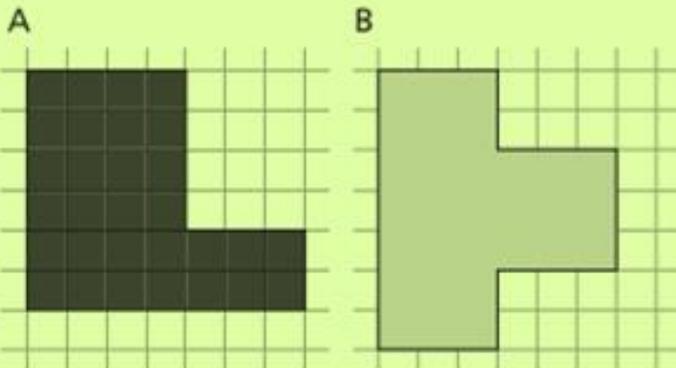
Think together

1 Find the areas of these three rectangles by counting the squares.



A = squares B = squares C = squares

2 Work out the areas of these two rectilinear shapes.



A = squares B = squares

A rectilinear shape is a shape with straight sides that always meet at right angles. Squares and rectangles are rectilinear shapes.

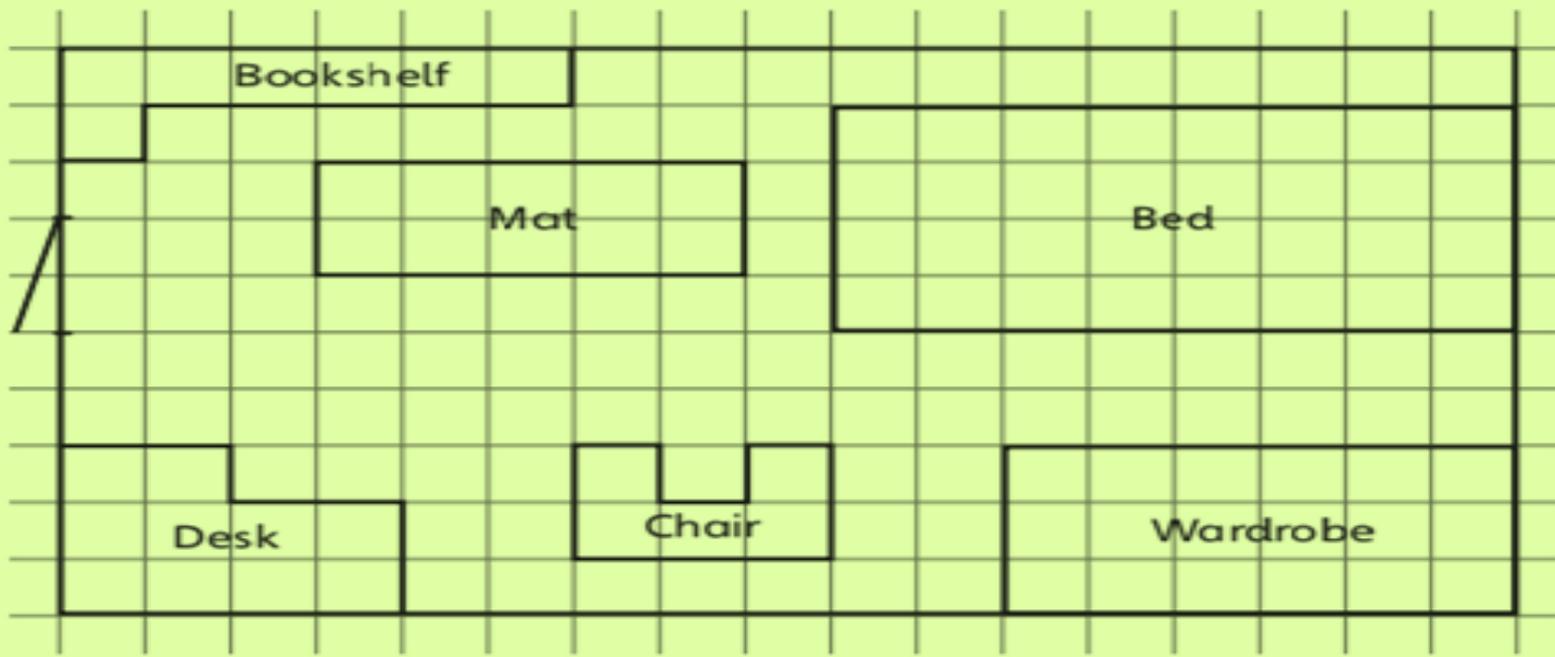


Which shape looks like it has the largest area? Is there more way to find the area of these shapes?

Compare these shapes with squares and rectangles. What is the same? What is different?

Practice Questions

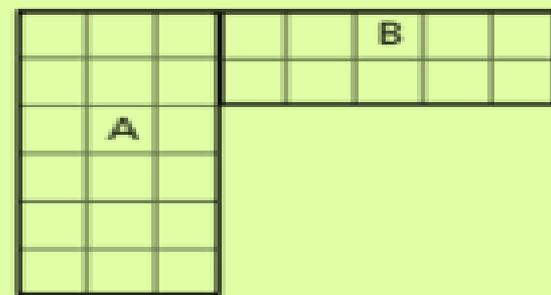
1 Here is a plan of a child's bedroom.



- a) Complete the table to show the area of each object on the plan.
- b) Draw your own object on the plan and in the last line of the table write down its area.

Object	Area (squares)
Desk	
Chair	
Wardrobe	
Mat	
Bookshelf	
Bed	

- 2 Look at the shapes and complete the statements.



Rectangle A has an area of squares.

Rectangle B has an area of squares.

Area of A + B = squares + squares = squares

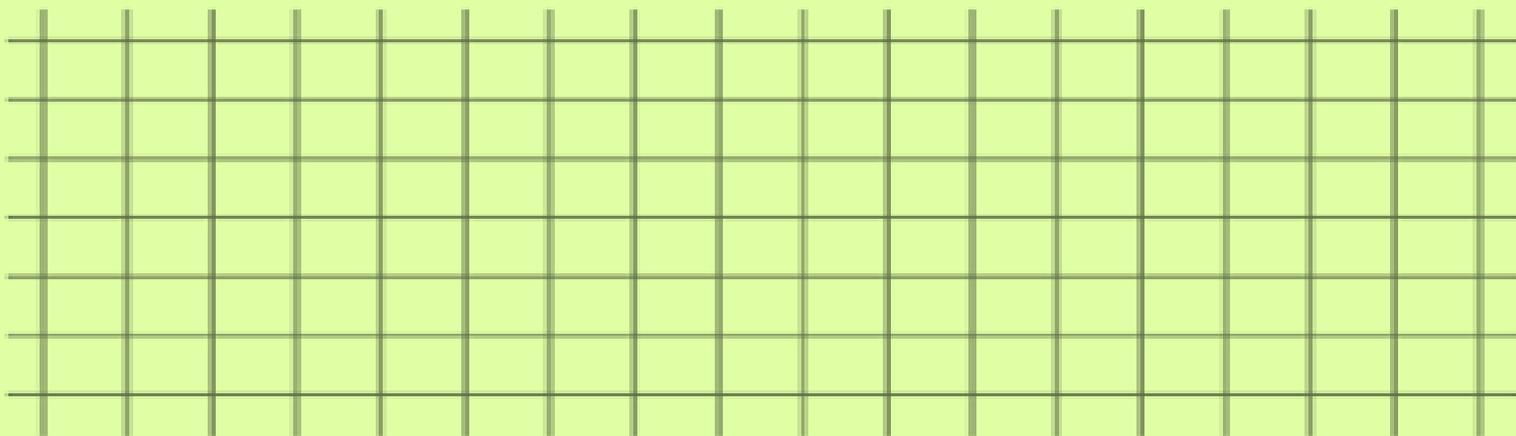
The whole shape has an area of squares.

- 3 A shape is made up of two rectangles joined together.

The first rectangle has twice the area of the second.

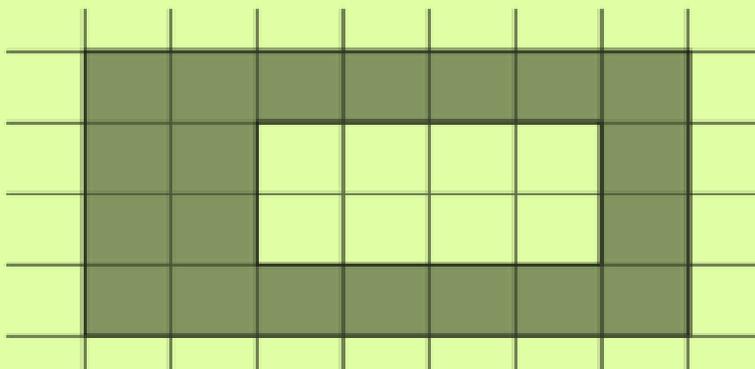
What could the total area be?

Draw your shape then work out its area.



Total area = squares + squares = squares

- 4 What is the area of the shaded shape?

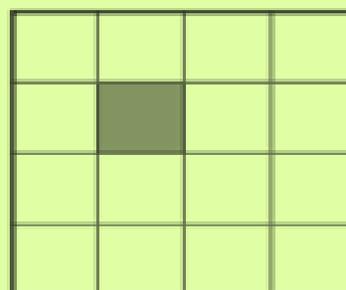


- 5 A farmer wants to split his land into 5 fields, all the same area.

On the map, the grey square shows the farmhouse and the rest of the squares show the area of the land around it.

Draw lines on the map to show how he can split up his land.

MAP OF OAK FARM



CHALLENGE

I have found a way to do this where the fields are all the same shape, too!



Reflect

Abdul puts a cardboard shape on top of some squared paper. How would you help him to find the area of the shape?

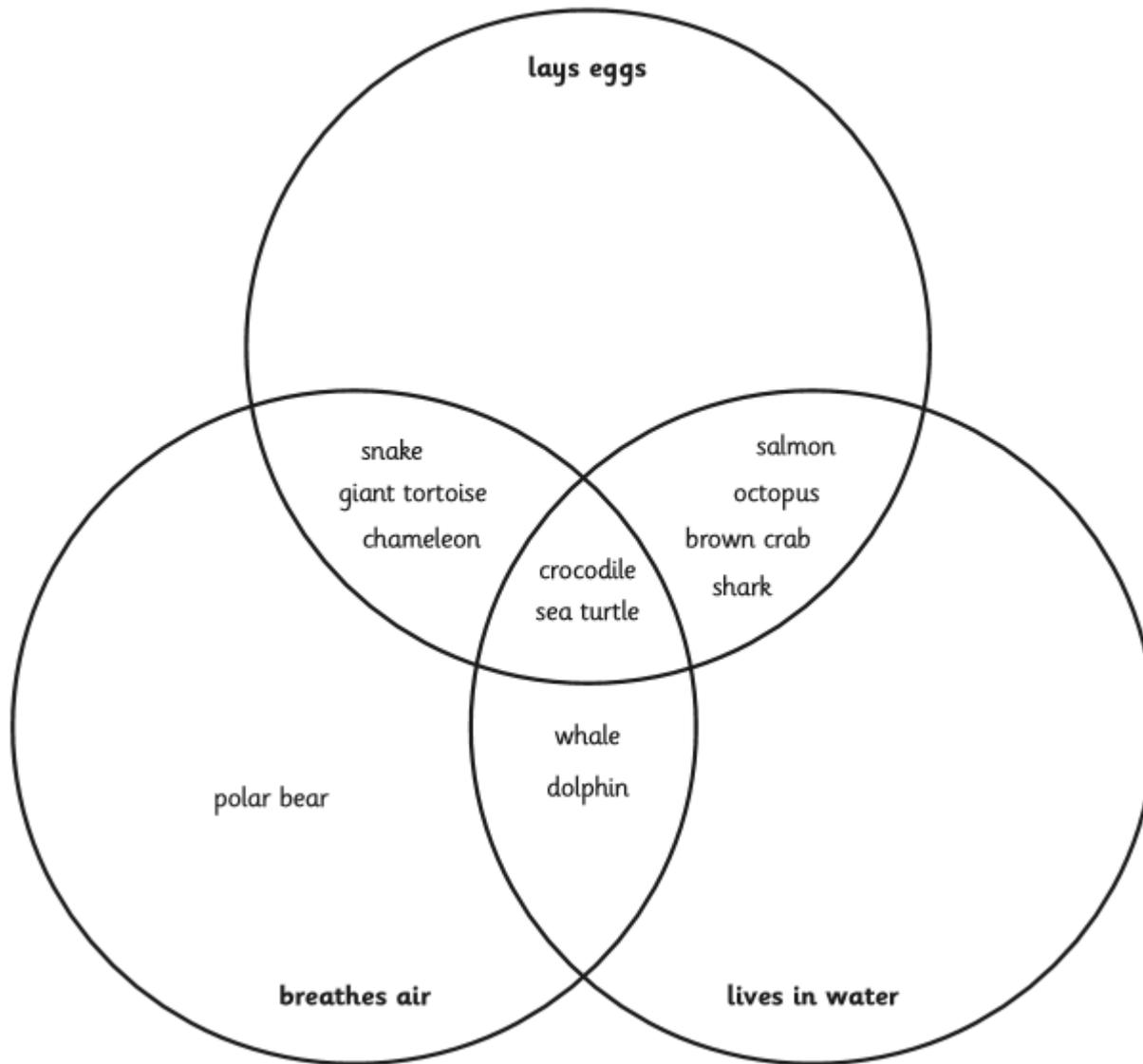
Do you remember Year 4?
All living things do the following things:

Movement
Respiration
Sensitivity

Growth
Reproduction
Excretion
Nutrition

MRS GREN





Does your Venn diagram look like this?



Grouping Animals Quiz Answers

1. Which animals lay eggs and breathe air?

snake

giant tortoise

chameleon

crocodile

sea turtle

2. How many animals lay eggs, live in water and breathe air?

2

3. Name the animals that live on land.

polar bear

snake

giant tortoise

chameleon

4. How many animals live in water and breathe air?

5

Grouping Animals Quiz Answers

5. Name the animals that do not breathe air.

brown crab

salmon

octopus

shark



4 marks

6. Name three other animals that would go in the same group as the polar bear?

Accept any land animals that bear live young.



3 marks

7. What kind of animal are the organisms that breathe air, live in water and do not lay eggs?

Reptiles

Fish

Mammals



1 mark

8. Bonus question: Give a reason why there is an empty group.

All animals must either breathe air or live in water, there can be no animal that lays eggs but does not fit into one of the other two groups.



3 marks



Total marks

Grouping Animals Quiz Answers



Well Done! You
are all doing so
well!

Have a
housepoint!



Mini-Beasts in a Ryo Takemasa Style

Ryo Takemasa is an illustrator, look at how he has drawn these mini-beasts. Do you think you could have a go?



These Ryo Takemasa-inspired insects are more art than science; insect-ish rather than scientifically accurate.

We shall be drawing very detailed, exact and scientific drawings as Darwin did in his notebook but try copying one of these first then you could try another, either copying from this selection or choosing an insect and drawing your own in the style of Ryo Takemasa.







How did you do ?

Maybe Scan and send them in for us to see.

