

Year 1 Week 1

Noticing numbers

0 1 2 3 4 5 6 7 8 9 10 ...

Why is it your favourite?
What do you like about it?

Draw a picture with your favourite
number hidden in it

Do you have a
favourite or
lucky number?

Find that many toys or objects.
Make a model or pattern using
them.
How many different models can you
make?

Find your favourite number in your
house or garden.

0 1 2 3 4 5 6 7 8 9 10 ...

What is the biggest number you know?
What is the smallest?

Count up as high as you can.
Now count down again.

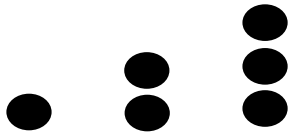
Big numbers
and little
numbers

Make a tower from toys or small objects. How many in your tower?

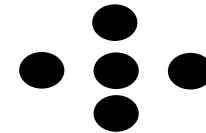
Do some exercises.
Count how many you can do.

0 1 2 3 4 5 6 7 8 9 10 ...

Draw a picture to show the numbers growing from 1 to 10.



Draw lots of patterns to show the number 5.



Number patterns

Make a repeating pattern using toys or pictures.

Draw lots of patterns to show the number 10.



Learning to Learn

Play a memory game

For 2 players.

Player A

Make a pattern of up to 10 different objects

Show it for 5 seconds, then cover it.

Player B

Can you remember all the things you saw?

Practice memory skills

Try one of these:

Learn a song off by heart.

Invent a small dance routine to learn.

Learn the names of 10 countries.

Year 2 Week 1

Noticing numbers

0 1 2 3 4 5 6 7 8 9 10 ...

Why is it your favourite?
What do you like about it?

Draw a picture with your favourite
number hidden in it in many ways.

Do you have
a favourite or
lucky
number?

Invent a story with your favourite
number in it.

Make up an exercise routine using
your favourite number.

0 1 2 3 4 5 6 7 8 9 10 ...

What is the biggest number you know?
What is the smallest?

Count up as high as you can.
Now count down again.

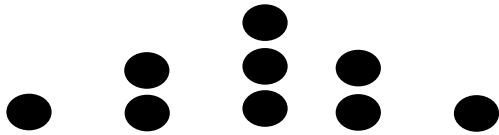
Big numbers
and little
numbers

Make a tower from toys or small objects. How many in your tower?

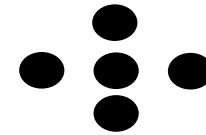
Do some exercises.
Count how many you can do.

0 1 2 3 4 5 6 7 8 9 10 ...

This pattern uses 9 dots. Invent some different pyramid patterns



Draw lots of patterns to show the number 5.



Number patterns

Fill a page with interesting patterns.
What different number patterns can you discover?

Draw lots of patterns to show the number 10.



Learning to Learn

Play a memory game

For 2 players.

Player A

Make a pattern of up to 10 different objects

Show it for 5 seconds, then cover it.

Player B

Can you remember all the things you saw?

Practice memory skills

Try one of these:

Learn a song off by heart.

Invent a small dance routine to learn.

Learn the names of 15 countries.

Year 3/4 Week 1

Noticing numbers

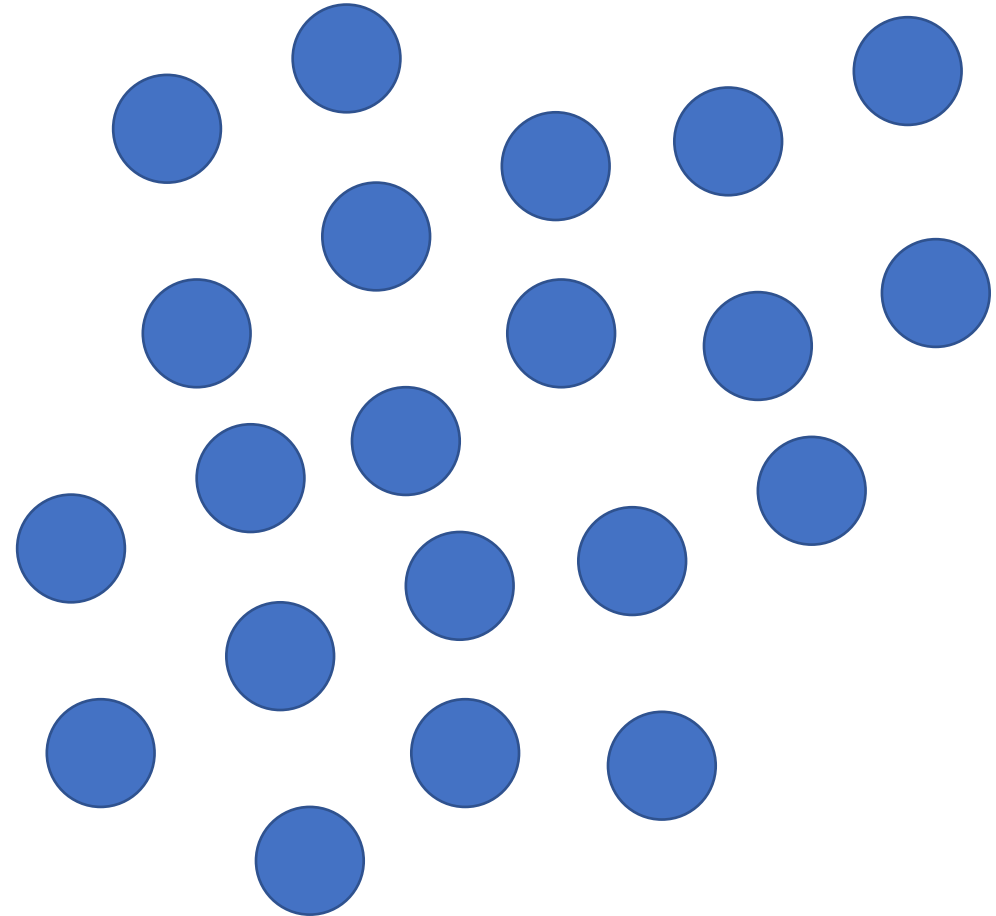
Number game

2 players.

Start with 21 objects.

Take turns to remove either 1, 2 or 3 each time.

The **winner** is the one who takes the last object.



Interesting numbers

Do you have a favourite or lucky number?

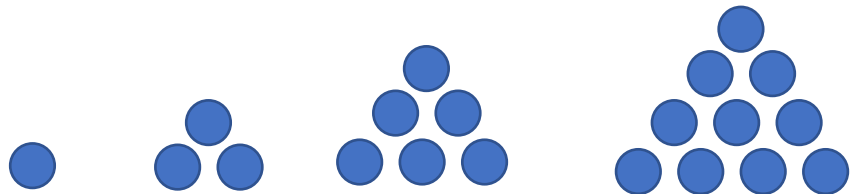
Why is it your favourite?

What do you like about it?

What is the biggest number you know?

Investigate the names for enormous numbers.

Invent a growing pattern. How many in each stage?



Do you think numbers go on for ever, or will they eventually run out?

Have you heard of infinity?

Patterns

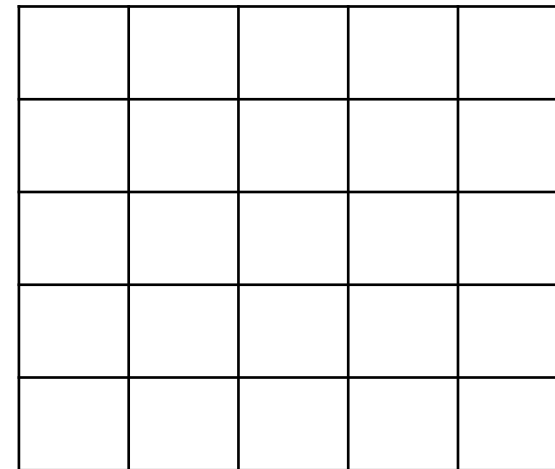
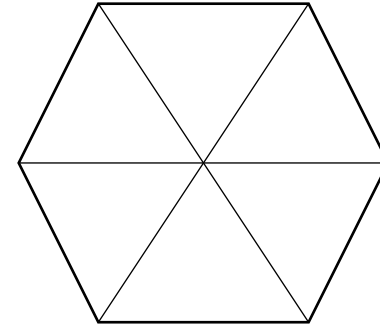
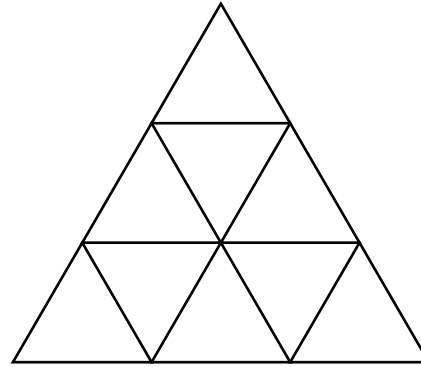
Draw patterns and grids like these.

Shade different patterns.

Can you make some cool symmetry?

Can you invent one no one else will think of?

Make up your own!



Number game Sequel!!

2 players.

Start with 21 objects.

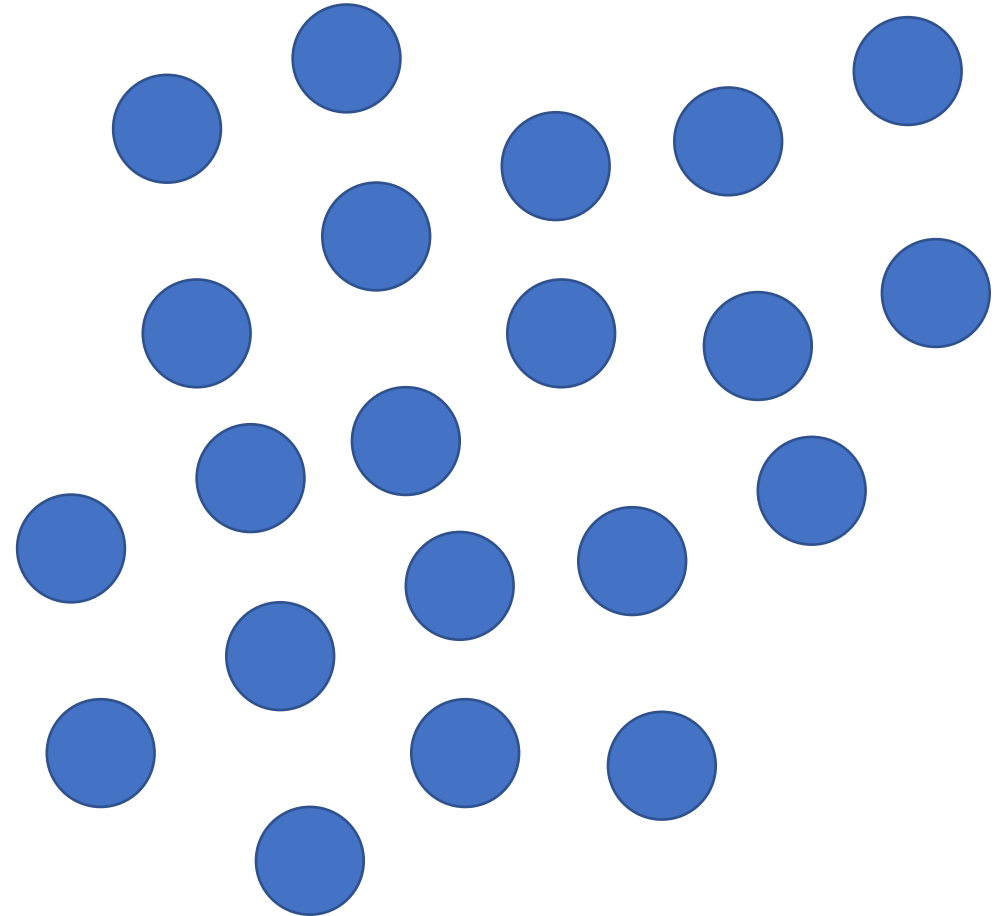
Take turns to remove either 1, 2 or 3 each time.

The **loser** is the one who takes the last object.

Invent your own rules:

Start with a different number.

Change how many you can remove each time.



Learning to Learn

Play a memory game

For 2 players.

Player A

Make a pattern of up to 10 different objects

Show it for 5 seconds, then cover it.

Player B

Can you remember all the things you saw?

Practice memory skills

Try one of these:

Learn a song off by heart.

Invent a small dance routine to learn.

Learn the names and capital cities of 10 countries.

Year 5/6 Week 1

Noticing numbers

Number game

2 players.

Start with 21 objects.

Take turns to remove either 1, 2 or 3 each time.

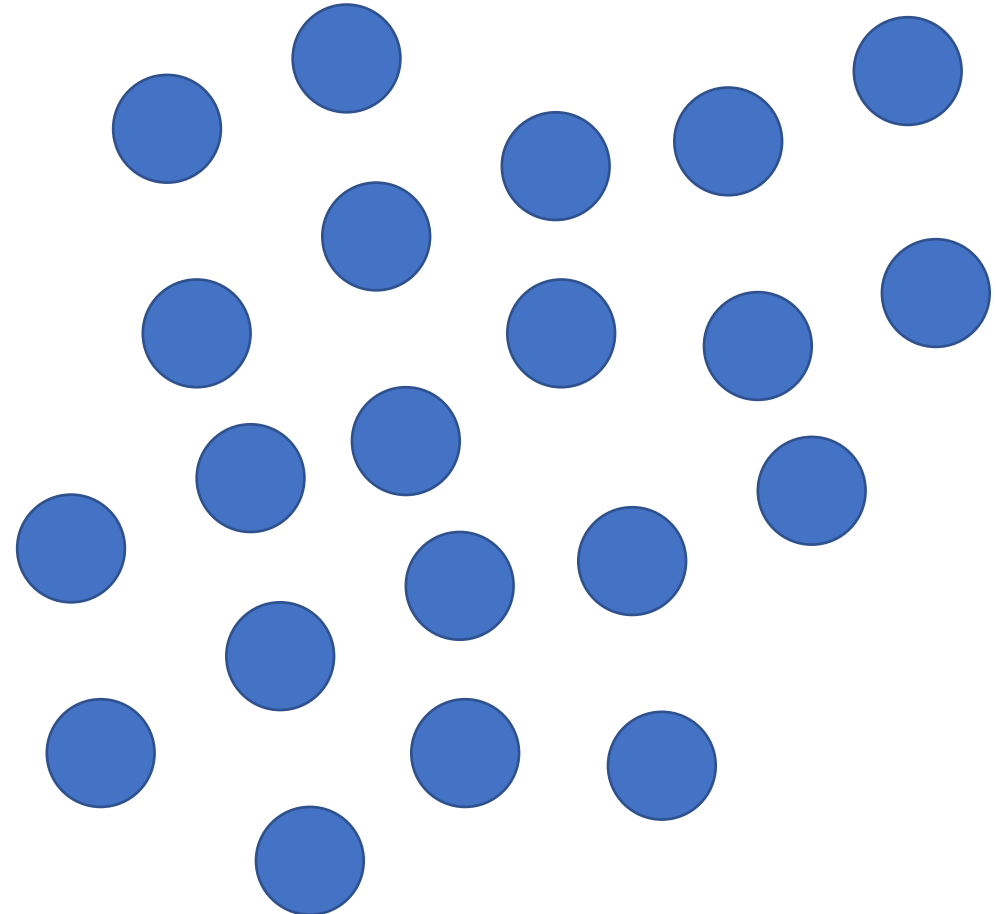
The **winner** is the one who takes the last object.

Invent your own rules:

What if you lose if you take the last object?

Start with a different number.

Change how many you can remove each time.



Infinity

Do you have a favourite or lucky number?

Why is it your favourite?

What do you like about it?

What is the biggest number you know?

Investigate these numbers:

Million, billion, trillion

Googol

Googolplex

If you count one number every 1 second, how long will it take to count to 1 million?

What about 1 billion???

Is there such a thing as infinity?

What about negative infinity?

What is the smallest possible number?

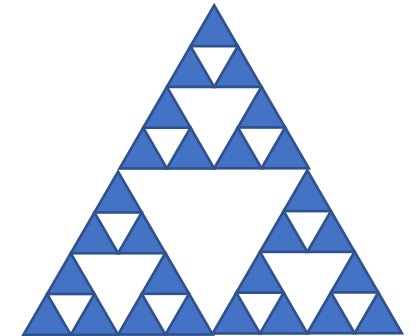
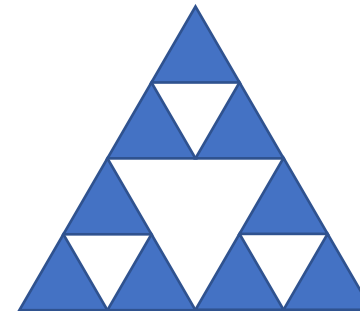
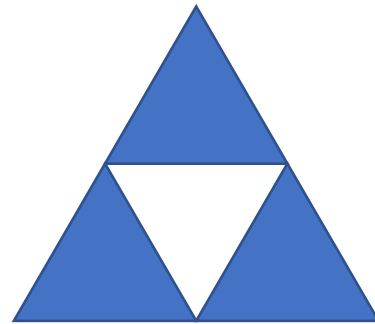
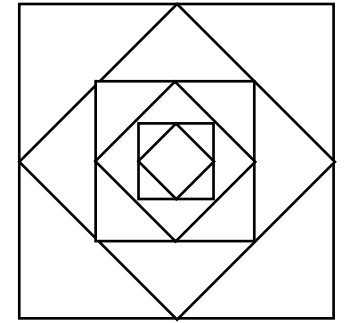
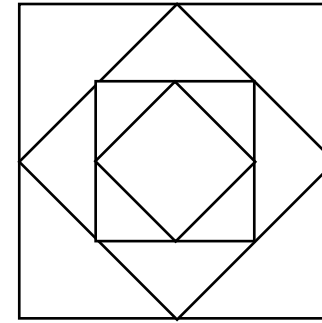
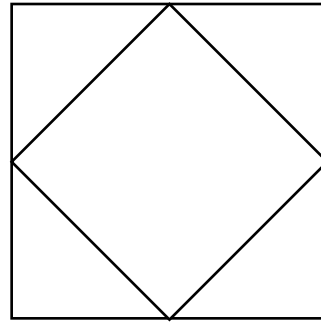
Patterns

Draw patterns like these.

Can you see how they grow/shrink?

These patterns go on forever!

Make up your own!



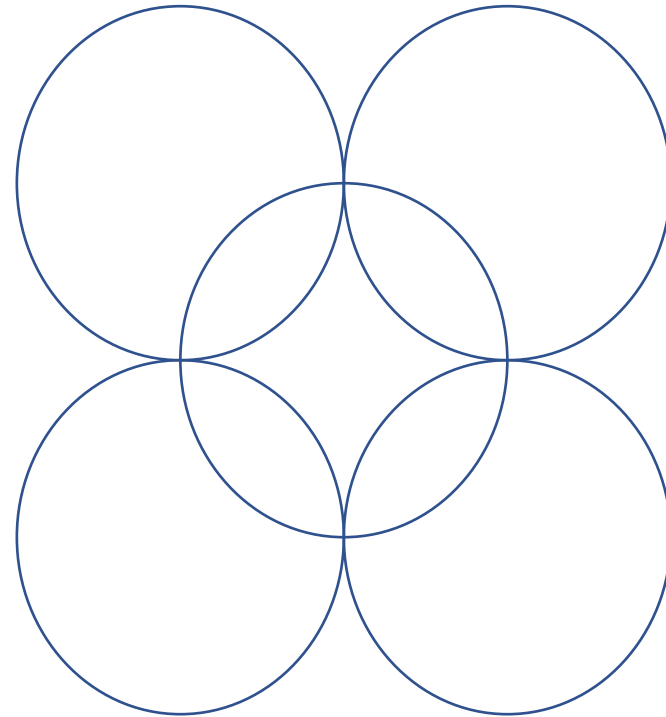
Drawing game

Draw a pattern.

Colour each section so that each section is a different colour from the ones that join it.

(The same colour can touch at corners)

Can you invent a pattern which needs more than 4 different colours?



Learning to Learn

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For 2 players.

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Show it for 5 seconds, then cover it.

Player B

Can you remember all the things you saw?

Practice memory skills

Try one of these:

Learn a song off by heart.

Invent a small dance routine to learn.

Learn the names and capital cities of 20 countries.