

YEAR 1 MATHS

Term 6 Week 7

Mathletics and Professor Assessor

This week we have set some pictogram and tally chart activities for you to try on Mathletics:

<https://www.mathletics.com/uk/>

We have also set a 2, 5 and 10 times tables test on

Professor Assessor: www.prof123.co.uk/

You will have 1 week to complete each of these tasks from Monday 13th July. All of these activities will help us to know how you are getting on with your learning.

This week – Multiplication and Division

- Each session should take about 45 minutes.
- This week we are focusing on:
- **Lesson 1** – Introducing Pictograms
- **Lesson 2** – Creating Pictograms
- **Lesson 3** – Introducing Tally Charts
- **Lesson 4** – Recording Tally Charts
- **Lesson 5** – Key skills – Mental addition and subtraction of 1 digit numbers

Session 1 – Introducing Pictograms

- In this session we are going to learn about pictograms and how they are useful for showing data in a way that is clear and easy to read.
- Please start by watching this video:
<https://www.bbc.co.uk/bitesize/clips/zg4d2hv>
- Next we would like you to try reading the 'cars in the garage' pictogram and answer the questions about it over the next few pages.
- After this, we would like you to try one (or both) of the activities on pages 9 and 10.
- Lastly, we would like you to try these pictogram games:
https://www.softschools.com/math/data_analysis/pictograph/games/
or <http://toytheater.com/fishing/>

Session 1





This is a pictogram to show how many cars are in Matt the mechanics garage over a week.

How do we use a pictogram?

Each picture of a car equals 1 car in the garage.

So, for example, on Friday we know that there are 5 cars in the garage because there are 5 car pictures.

Now please try the questions on the next few pages.





Day of the week	Amount of cars
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Session 1

How many cars were in the garage on Monday?

How many cars were in the garage on Thursday?

How many cars were in the garage altogether on Monday and Tuesday?

Day of the week	Amount of cars
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Session 1





What if:



= 2 cars?

How many cars are in the garage on Wednesday?

Hint: Count in 2's to find the answer.

Day of the week	Amount of cars
Monday	 Two line drawings of cars are shown side-by-side.
Tuesday	 A single line drawing of a car is shown.
Wednesday	 Three line drawings of cars are shown side-by-side.
Thursday	
Friday	 Five line drawings of cars are shown in two rows: three in the top row and two in the bottom row.

Session 1





What if:



= 2 cars?





How many cars are in the garage on Monday and Friday altogether?

Hint: Count in 2's to find the answer.

Day of the week	Amount of cars
Monday	 Two line drawings of cars are shown side-by-side.
Tuesday	 A single line drawing of a car is shown.
Wednesday	 Three line drawings of cars are shown in a row.
Thursday	
Friday	 Five line drawings of cars are shown in two rows: three in the top row and two in the bottom row.

Session 1 – Activity 1

This pictogram shows how many vans were in Matt the mechanic's garage last week.

Day of the week	Amount of vans	Number
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		

Use the pictogram to answer these questions. Remember to read the questions carefully!

How many vans were in the garage each day? Please write in the amounts.

How many vans were in the garage altogether?

How many more vans were in the garage on Monday than on Tuesday?

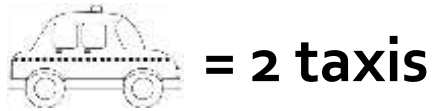
How many vans were there altogether on Thursday and Friday?

If there had been 1 more van on Tuesday how many vans would there have been?

On Monday there were 3 vans. On which day was there double this amount of vans?

Session 1 – Activity 2

This pictogram shows how many taxis were in Matt the mechanic's garage last week.



Day of the week	Amount of taxis	Number
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		

Use the pictogram to answer these questions. Remember to read the questions carefully!

How many taxis were in the garage each day? (Remember to count in 2's.)

How many taxis were in the garage altogether?

How many more taxis were in the garage on Monday than on Tuesday?

How many taxis were there altogether on Tuesday and Wednesday?

If there had been 3 more taxis on Tuesday how many taxis would there have been?

On Thursday there were 6 taxis. On which day was there double this amount of taxis?

Session 2 – Creating Pictograms

- Today we are going to focus on how to draw a pictogram.
- Please start by watching Mrs Janman's video:
<https://www.youtube.com/watch?v=t6KJULrCWrs>
- Please use the template on the next page to create your own pictogram or you could draw one on a piece of paper like Mrs Janman in the video.
- You can see Mrs Janman's example on the following page.
- As an extra challenge, we have included a pictogram activity based around people's favourite foods. This can be found on pages 14 and 15.

Session 2

A pictogram to show _____

Key

= _____

= _____














= _____

= _____


= _____


Session 2


A pictogram to show our favourite colours.


	1	2	3	4	5	6	7	8
Red								
Yellow								
Blue								
Green								
Pink								
Orange								


Key


 = 1 child

 = 1 child

 = 1 child






 = 1 child

 = 1 child

 = 1 child

Session 2

I can read a table and make a pictogram.

vegetables		number of humans
	carrots	3
	peas	6
	broccoli	2
	sweetcorn	1
	mushrooms	7

Hello Lemurs!

I want to learn all about what humans eat but I can't understand this table.

Please help me turn this into a pictogram!



Please look on the next page for the template.

Session 2

Please use the data on the next page to complete this pictogram.

carrots								
peas								
broccoli								
sweetcorn								
mushrooms								
humans	1	2	3	4	5	6	7	8

What do humans eat the most? _____

How many humans liked peas? _____

What do humans like the least? _____

Session 3 – Introducing Tally Charts

- Today we are going to be focusing on another way to show data. This is called a tally chart.
- Please start by watching this video about making tally marks:
<https://www.bbc.co.uk/bitesize/clips/z7r9jxs>
- Next, we would like you to watch this video to see how different numbers or amounts are recorded as a tally:
<https://www.youtube.com/watch?v=oWhqQ-Uuqjl>
- We would now like you to work through the questions on the next few pages.
- There is also an extension task which can be found on page 20.

Session 3

1 Draw tally marks to represent each number.

a) 5

b) 10

c) 4

d) 16

2 There are some socks on a washing line.
The socks are spotty, stripy or plain.



Complete the tally chart.

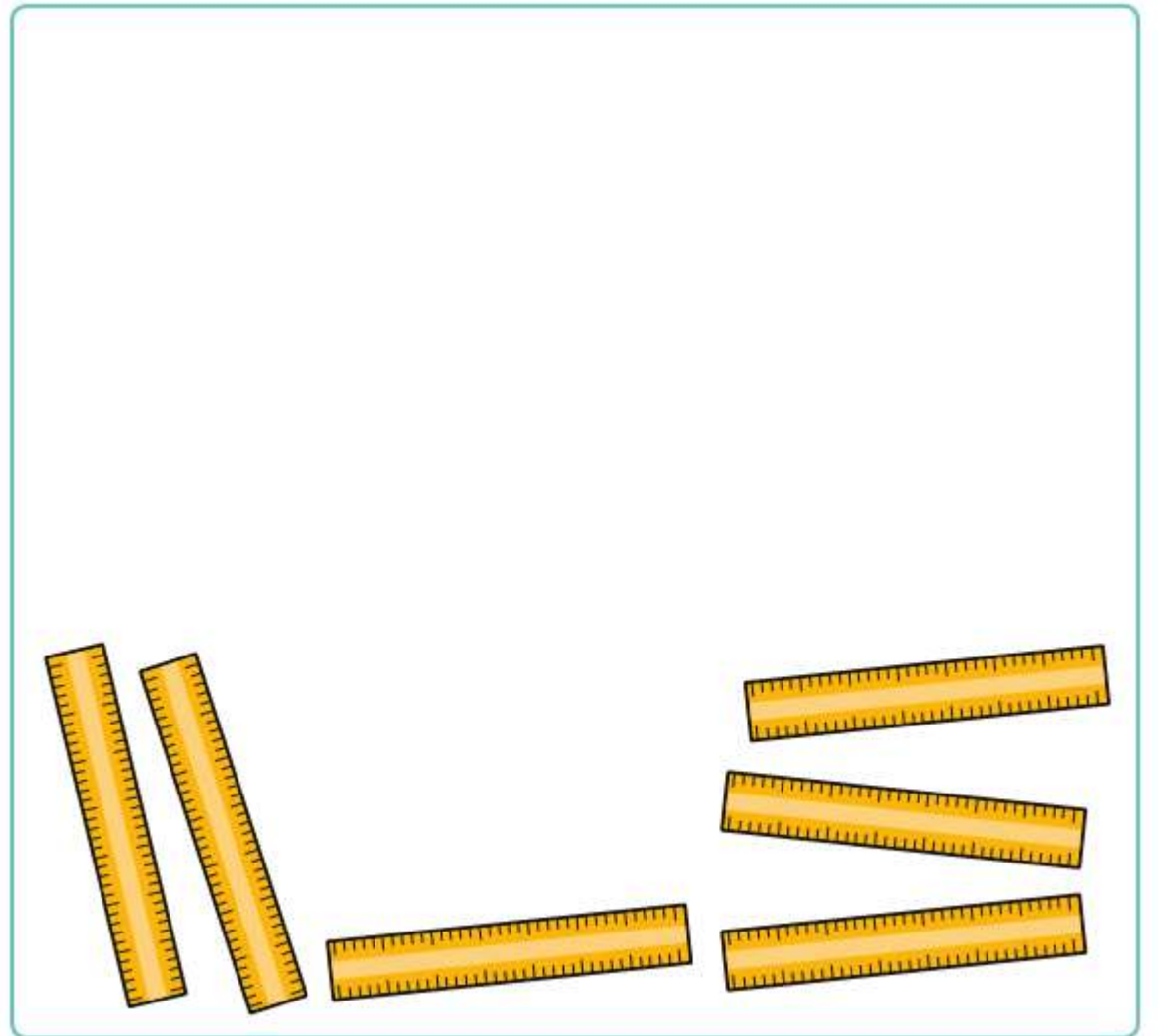
Sock	Tally
spotty	
stripy	
plain	

Session 3

- 3 Class 2 tally the number of pencils, rubbers and rulers they have.

Item	Tally
pencils	IIII
rubbers	III III
rulers	III I

Draw the items. The rulers have been drawn for you.



Session 3

- 5 Whitney, Teddy and Jack tally how many jumps they can do in a minute.

Jumps	Tally	Total
Whitney	HH I	
Teddy	IIIIIIII	
Jack	IIII	

a)







Do you agree with Whitney? _____
Explain your reasons.

b) How could Teddy's tallying be improved?

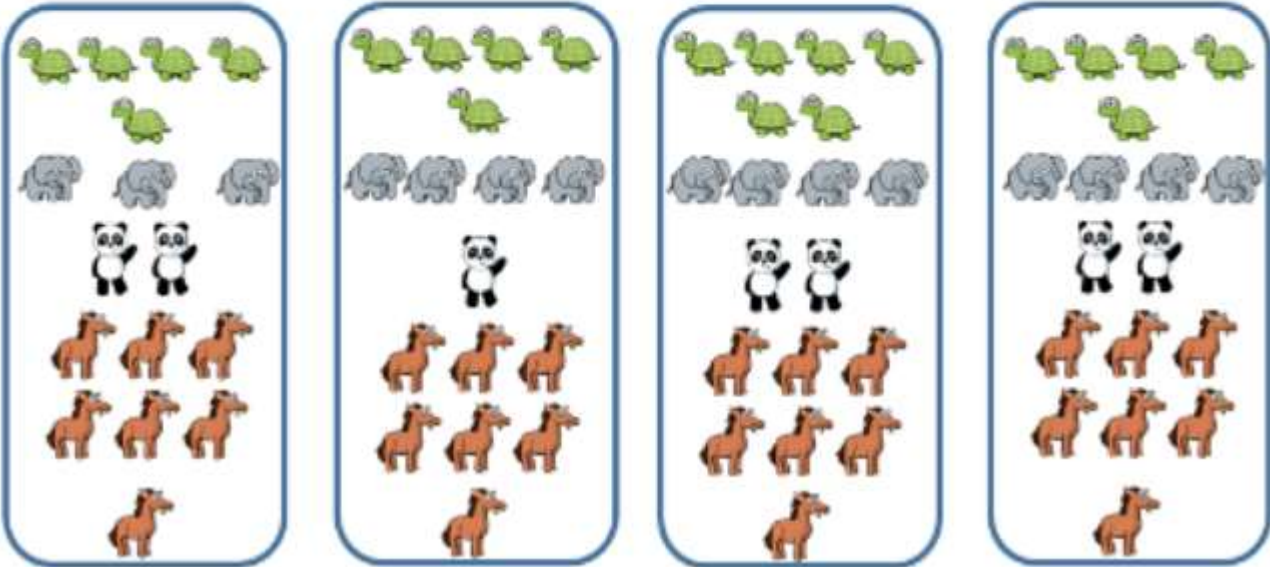
Session 3

Dexter makes a tally chart of the animals he saw at the zoo

Animal	Tally
	
	
	
	

Tick one box below that shows all of the animals Dexter saw and explain why the others are incorrect.

Box 1 Box 2 Box 3 Box 4



Please turn to the next page for the answer.

Session 3

Box 1 is incorrect because there are not enough elephants to match the tally chart.

Box 2 is incorrect because there are not enough pandas to match the tally chart.

Box 3 is incorrect because there are too many turtles.

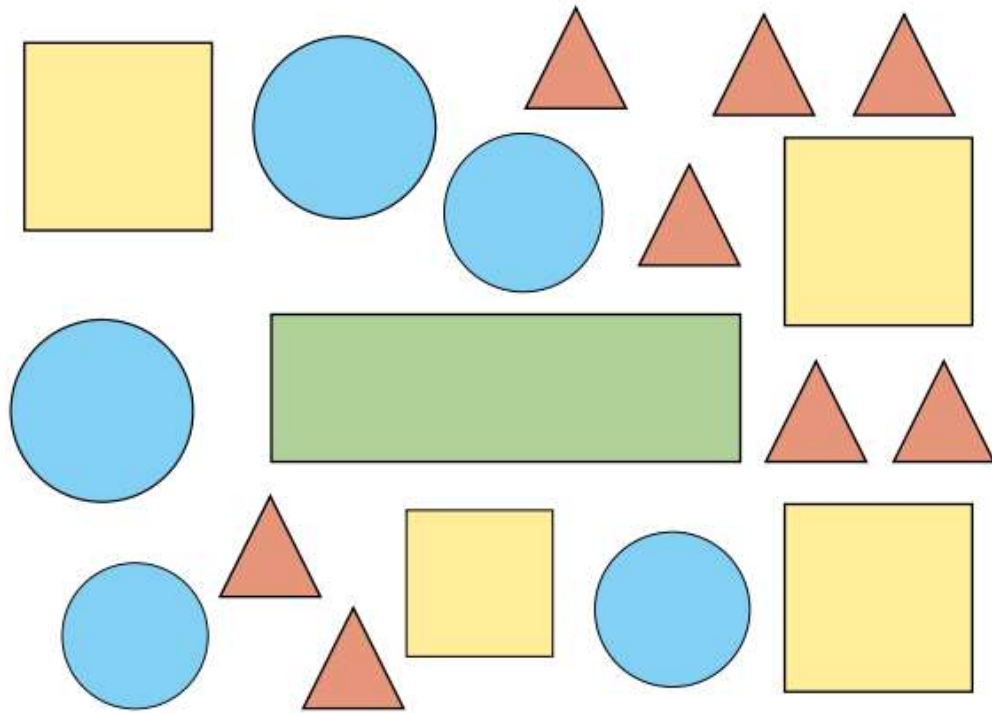


Session 4 – Recording Tally Charts

- Today we are going to create our own tally charts.
- First we would like you to watch this video about how to fill out a tally chart: <https://www.youtube.com/watch?v=6L2ch1esFGA>
- We would now like you to use the pictures of shapes and fruit on the next few pages to create some tally charts.
- As an optional extra challenge, there is a template on page 26 to use to record your own tally chart. This could record the different types of vehicles that go past your house or the different types of flowers you have in your garden.
- Finally, we would like you to find the similarities and differences between the 2 tally charts on page 27.

Session 4

4 Here are some shapes.



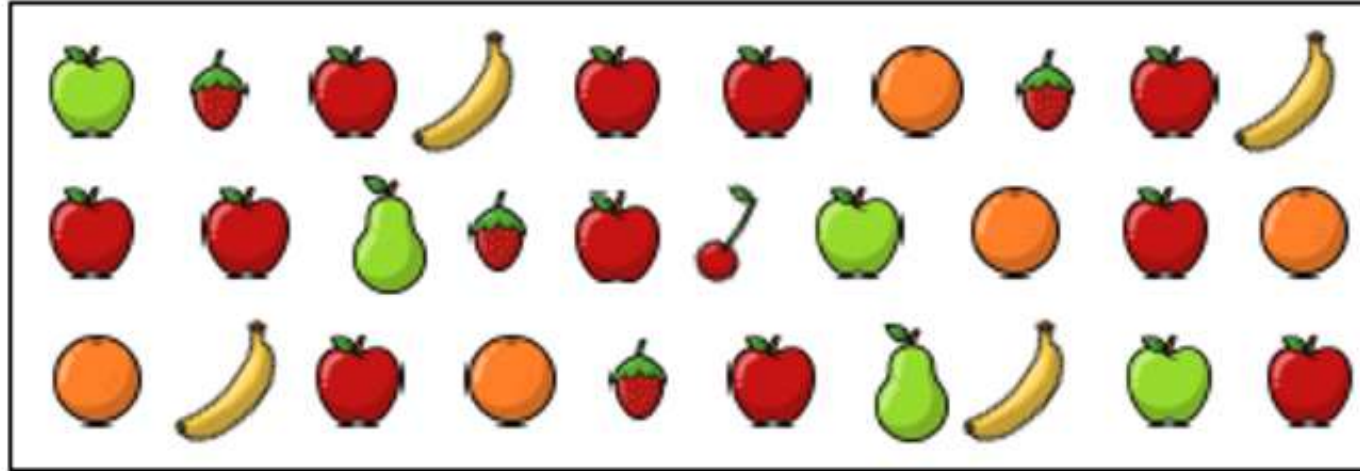
Top tip: Remember to cross each shape off as you record them on the tally chart.

Complete the tally chart to show how many of each shape there are.

Shape	Tally	Total

Session 4

Children were asked what their favourite fruit was. The answers are shown below:



Top tip: Remember to cross off each piece of fruit as you record them on the tally chart.

Use the fruit above to complete the tally chart:

Fruit	Tally	Total

After this, please turn to the next page to answer some questions about this tally chart.

Session 4

1. Which fruit was the most popular? _____
2. Which fruit was the least popular? _____
3. How many more red apples than green? _____
4. How many people were surveyed altogether? _____
5. Order fruits from most to least popular: 1. _____



2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Session 4

Item	Tally	Total

Class 1 and Class 2 were each asked their favourite ice-cream flavours. Their results are shown in the tally charts.

Class 1	
Flavour	Total
Vanilla	
Chocolate	
Strawberry	
Mint	

Class 2	
Flavour	Total
Vanilla	
Chocolate	
Strawberry	
Mint	

What is the same? What is different?

Session 4

The same:

Both classes have 20 votes for chocolate. Both tally charts show that chocolate is the favourite flavour and mint is the least favourite flavour. The order of preference for all four flavours is the same.

Different:

In Class 1, three more children like Vanilla. There are more children in Class 1 than Class 2. 2 more children chose mint in class 2

Session 5 – Key skills – Mental addition and subtraction of 1 digit numbers

- Today we would like you to recap our learning, from earlier this year, on the key skill of adding and subtracting 1 digit numbers mentally (in our heads).
- We would like you to start by watching Mrs Janman's video:
<https://www.youtube.com/watch?v=WpfbGBUPgh4>
- After this, we would like you to try some addition and then subtraction questions on the daily 10 game. (Parents - you will need to select level 1 and then either addition or subtraction. Lastly select either 'Up to 10 – adding ones' or 'Up to 20 – adding ones'.) <https://www.topmarks.co.uk/maths-games/daily10>
- Alternatively, you could time yourself completing 1 or more sets of the questions on the next page.
- Please don't forget to try the Mathletics and Professor Assessor activities set for this week.

Session 5 – Key skills – Mental addition and subtraction of 1 digit numbers

Set 1		Set 2		Set 3	
$4 + 3 =$	$6 - 4 =$	$14 + 3 =$	$15 - 4 =$	$24 + 3 =$	$36 - 4 =$
$5 + 4 =$	$7 - 3 =$	$12 + 4 =$	$17 - 3 =$	$35 + 4 =$	$27 - 3 =$
$7 + 3 =$	$9 - 3 =$	$17 + 3 =$	$18 - 3 =$	$47 + 3 =$	$59 - 3 =$
$8 + 4 =$	$10 - 2 =$	$16 + 4 =$	$20 - 4 =$	$58 + 4 =$	$60 - 2 =$
$9 + 5 =$	$11 - 5 =$	$19 + 3 =$	$21 - 5 =$	$79 + 5 =$	$81 - 5 =$