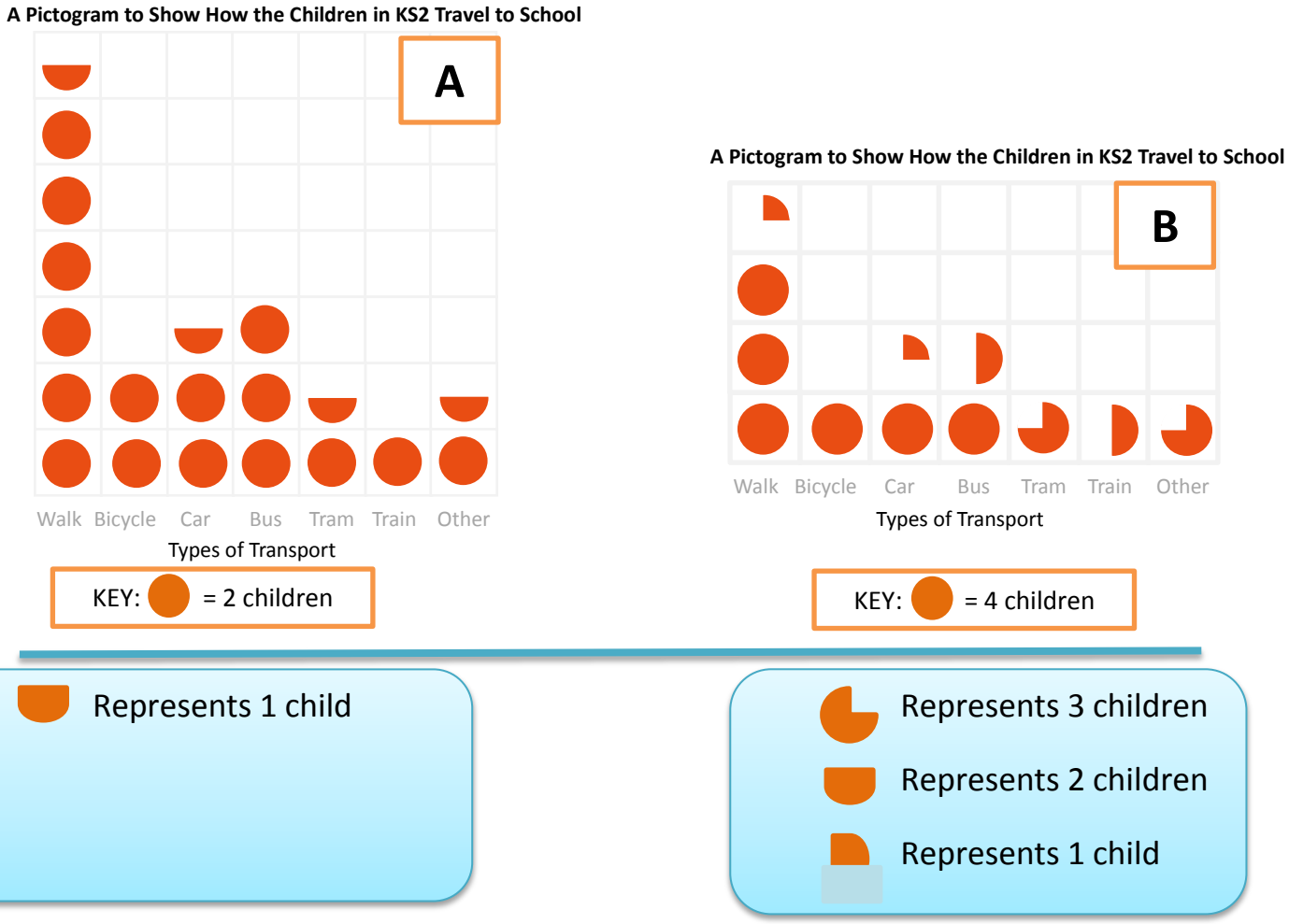
Friday 19th June 2020

Comparisons, Sums and Difference

Yesterday we revisited how to use Bar Chart and Frequency tables to record, explore and interpret '**discrete**' data. Today we will revisit Pictograms.

Do these pictograms show the same data? Let's have a closer look!



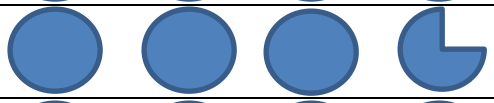
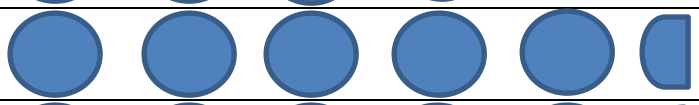
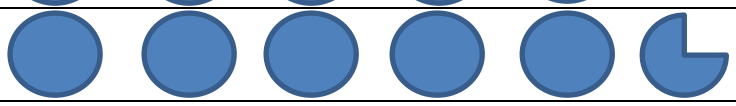
DID YOU SPOT THE DIFFERENCE! That's right. With Chart A, you count the whole circles in 2s and half of a circle is half of 2 which is 1. With Chart B you count the whole circles in 4s, here half of a circle is half of 4, therefore half of a circle represents 2, so three quarters of a circle is 3, and a quarter of a circle represents 1.

1. Copy and complete this Frequency chart using information from Pictogram A

Method of travel	Walk	Bicycle	Car	Bus	Tram	Train	Other
Number of children							

b) Copy and complete this Frequency chart using information from Pictogram B

c) Tell me something that you have noticed about your Frequency charts?

HOUSE	NUMBER OF HOUSE POINTS
Beech	
Oak	
Sycamore	
Chestnut	

KEY:

= 20 children

2.

a) Which house has the most points?

b) How much more points does Sycamore have than Oak?

c) How many points does Beech and Sycamore have all together?

d) How many more points does Oak need to be level with Chestnut?

3. Complete statements and answer questions for the Pictograms below.

Class A carried out surveys about children's favourite things.

Sport	Number of Children
Football	
Rugby	
Tennis	
Hockey	

Key

= 2 children

The most popular sport was _____.

_____ children chose hockey.

_____ more children chose football than rugby.

_____ children were included in the survey.

Orange Juice	Milk	Water	Lemonade
			

Key

= 5 children

What was the least popular drink? _____

How many children chose water and lemonade altogether? _____

What could the title of this pictogram be?

_____

Ice Cream Flavour	Number of Children
Chocolate	
Vanilla	
Strawberry	
Salted Caramel	

Key

= 10 children

True or False?

15 children chose chocolate. _____

50 children chose strawberry and salted caramel altogether. _____

4.

Emma and Brody have drawn pictograms to show how many children in their class have pets.

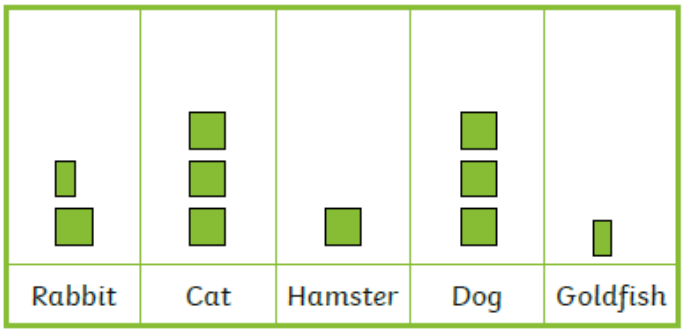
Emma's Pictogram

Pet	
Rabbit	●●●
Cat	●●●●●●
Hamster	●●
Dog	●●●●●●
Goldfish	●

Key

● = 5 children

Brody's Pictogram



Key

■ = 10 children

Our pictograms look different.

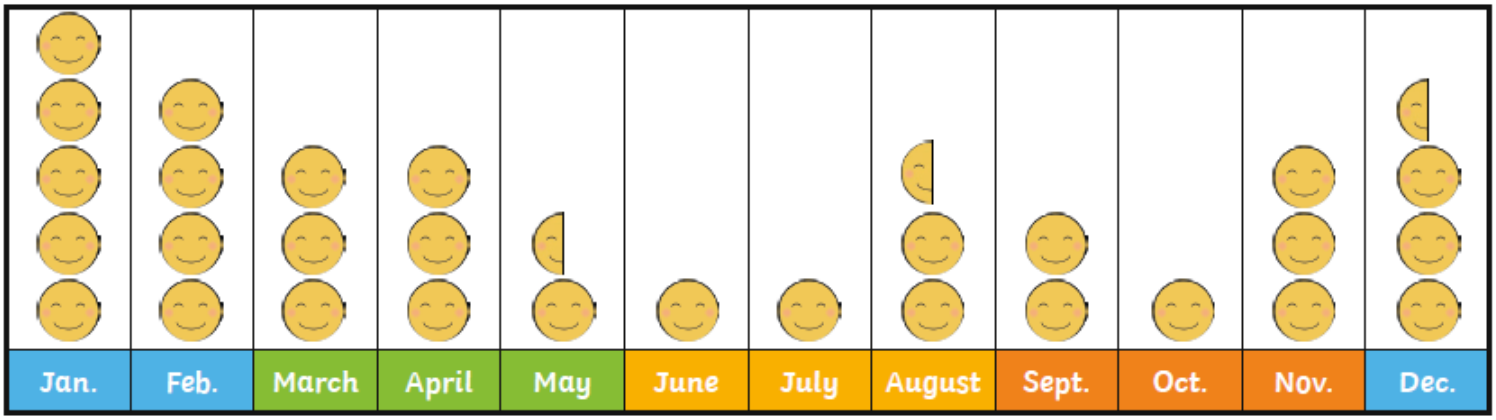
One of us must have made a mistake.

Do you agree? Has someone made a mistake? Explain your answer.

CHALLENGE:

The soft play centre records how many children visit in each month of the year.

☺ = 10 children



Winter | Spring | Summer | Autumn

Give the pictogram a title.	Write 5 things this pictogram tells you.	Are there more visitors to the soft play in the summer months or the spring months? How many more?
There were 4 visitors during February. True or false?	Which month would be best for the soft play to close for cleaning? Why?	In which season will the soft play centre make the most money from ticket sales? Why?