Lesson 39 **LO: To apply my knowledge of fractions**

Use all the skills you have learnt over the past few weeks to help you solve the problems the children face on their school trip to the zoo!

Look back at some of your previous work or any of Sarah's videos to help jog your memory if you get stuck.

Good luck!

Today, the children of Parkland Primary School are very excited. They are excited because they are going on a trip to the zoo. They find a partner and climb onto the coach. After a short while, they arrive at the car park. They climb off the coach and stand in a big group around the class teacher. Mrs Bates says, "There are too many of us to walk around the zoo as a whole class. I think it will be better if we split up into groups."

1 Mrs Bates decides to split the class into two equal groups. Has she correctly split the class in half? Explain why.

Once the children have been split into their groups, they are ready to enter the zoo. Mrs Bates has some very exciting news for them. She says, "The zoo keeper has allowed us to feed some of the animals. My group are going to feed the monkeys. The other group will get the chance to feed some animals later on. Let's get going!"

The children head off towards the gates of the zoo. Once inside, Mrs Bates's group go in search of the monkeys.
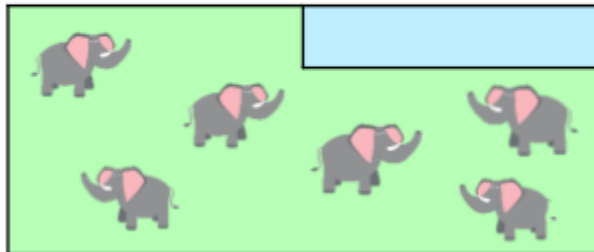
2 The zoo keeper is waiting for them by the monkey cage. She looks a bit sad. She tells the children that there are only enough bananas to feed $\frac{1}{2}$ of the monkeys. How many monkeys will get a banana?
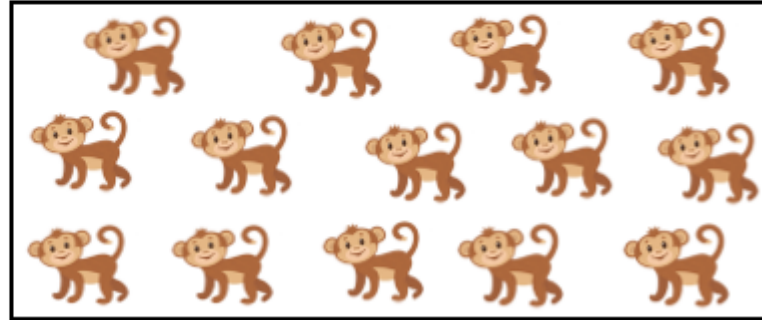
3 Next, the children go to see the elephants. Mrs Bates says that $\frac{1}{4}$ of their field is full of water because elephants like to play in it.

Is Mrs Bates correct? Explain why.

4 The zoo keeper says that the children can only see $\frac{1}{4}$ of the penguins. The rest of them are hiding in the pool. How many penguins are there in total?
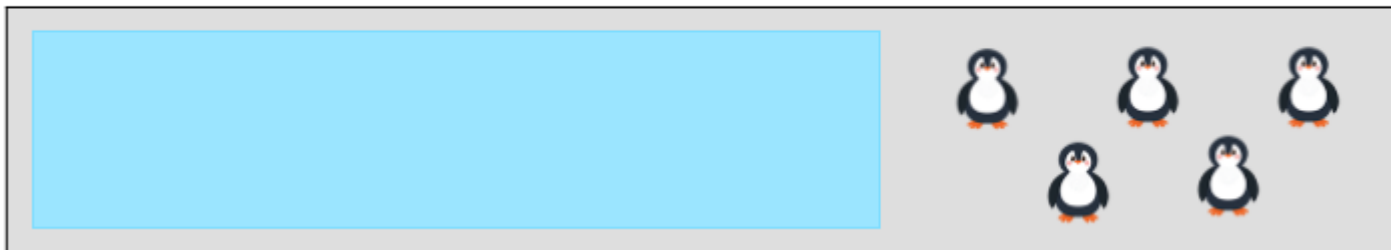
5 Gavin says:

I think that $\frac{1}{2}$ of the birds are flamingos.

Rosa says:

I think that $\frac{2}{4}$ of the birds are flamingos.
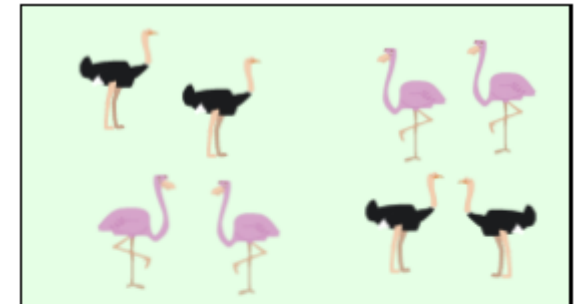
Who is correct? Explain why.

Main Activity

Year 3 Maths   Lesson 39

LO: To apply my knowledge of fractions

Farmer Fred lives on his farm with all his farm animals.
He has many jobs to do every single day.

He is a fantastic farmer but unfortunately, he is not very good at maths.

He is going to need your help, I hope you have your fractions brain with you.

Today is going to be a busy day on the farm.

Use all the skills you have learnt over the past few weeks to help Farmer Fred.

Look back at some of your previous work or any of Sarah's videos to help jog your memory if you get stuck.

And don't forget about the fraction wall at the end to help too!

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1a. Farmer Fred has divided his field up equally into 8 parts.

Use the key to colour the square or squares to match how much space each animal needs.

Animal	Fraction	Colour to shade
Chickens	$\frac{1}{8}$	Red
Pigs	$\frac{1}{4}$	Blue
Sheep	$\frac{1}{2}$	Green
Horse	$\frac{1}{8}$	Orange

1b. The goats need to have the same amount of field as the pigs. Circle all the fractions that are equivalent to $\frac{1}{4}$.

$\frac{2}{4}$ $\frac{4}{16}$ $\frac{1}{2}$ $\frac{4}{8}$ $\frac{2}{8}$

1c. Farmer Fred has 50 animals in total on his farm. 25 of his animals are chickens. Circle the equivalent fraction?

$\frac{1}{3}$ $\frac{2}{12}$ $\frac{1}{2}$ $\frac{20}{50}$ $\frac{25}{40}$

Farmer Fred is feeding his animals. Some of the animals share the same type of food.

2a. Compare the fractions of food each animal is having from the bag. Insert the correct symbol (> < or =) between the fractions.

$\frac{1}{3}$	☐	$\frac{1}{5}$	$\frac{1}{4}$	☐	$\frac{3}{4}$	$\frac{2}{3}$	☐	$\frac{4}{6}$
Chickens		Ducks	Sheep		Goats	Horse		Donkeys

2b. Farmer Fred has two 1kg boxes of feed left for the cows. Box 1 has $\frac{1}{2}$ of the food left in and box 2 has $\frac{1}{3}$ left.

I am going to use the box with $\frac{1}{3}$ of the food left in first because that one has the most food left.

Is Farmer Fred correct? Explain.

Famer Fred is putting a fence around his field. He has 5 pieces of fence panel that he needs to put in order before he starts.

3a. Put these fence panels in ascending order according to size.

$$\frac{2}{8}$$ $$\frac{7}{8}$$ $$\frac{5}{8}$$ $$\frac{8}{8}$$ $$\frac{4}{8}$$

A   B   C   D   E

3b. Farmer Fred says that if the denominator is the same, then the bigger the numerator the bigger the fraction. Is he correct?

Farmer Fred is counting up the animals before he puts them to bed.

4a. He starts with the chickens. $\frac{2}{7}$ of the chickens are in the coupe. $\frac{3}{7}$ go inside whilst Fred is counting.
What fraction of the chickens are now inside the coupe?

4b. Farmer Fred counts up all his sheep, there are 20 sheep altogether. In field 1 there are $\frac{3}{20}$. In field 2 there are $\frac{8}{20}$. What fraction are in field 3?

Word Bank:

Ascending – smallest to largest.

Numerator – top number in fraction

Denominator – bottom number in fraction

Use this fraction wall to help when comparing fractions to find equivalents:

1											
$\frac{1}{2}$						$\frac{1}{2}$					
$\frac{1}{3}$				$\frac{1}{3}$				$\frac{1}{3}$			
$\frac{1}{4}$			$\frac{1}{4}$			$\frac{1}{4}$			$\frac{1}{4}$		
$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$			
$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$	
$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	$\frac{1}{7}$					
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$				
$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$			
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$		
$\frac{1}{11}$	$\frac{1}{11}$	$\frac{1}{11}$	$\frac{1}{11}$	$\frac{1}{11}$	$\frac{1}{11}$	$\frac{1}{11}$	$\frac{1}{11}$	$\frac{1}{11}$	$\frac{1}{11}$	$\frac{1}{11}$	
$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$