Life on the Infinite Farm

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Who are the animals on the infinite farm?
Gracie is one of the animals.

She is an infinite cow.
Gracie loves shoes.

She has one on every foot ...
and her feet go on forever!
Hammerwood lives on the farm too.

Look at those teeth!
They just keep going.
Hammerwood loves bubble gum. Even though he has a hard time chewing it, he loves the taste... and the bubbles.
Paddington also lives on the farm.

What is he?

Maybe we're standing too close.
If you step back, you can see that ...
he is an infinite chicken.

On the infinite farm,
Chickens have teeth too.
Nelson lives in the pond, and uses his infinite row of eyes ... to watch his friend ...
Her tentacles stretch and branch out ... endlessly!
She decorates them with jewelry.

She is crazy about rings and bracelets and all that kind of stuff.
Tedford and Harm sleep coiled together in a limitless spiral.
Some of the animals on the farm are so strange that I don't even know their names.

Maybe you can think of names for these guys.
Do the animals have any problems on the farm?
Oh yes, lots of problems! Gracie has a problem with new shoes.

Her friends know that she loves shoes so they bring her new ones as presents.
She wants to wear the NEW shoes ...

But she doesn't want to stop wearing any of her OLD shoes.
She already has a shoe on EVERY foot...

So what is she going to do?
Meanwhile, Hammerwood has problems of his own.

He has so much fun blowing bubbles ...
that he often forgets to brush his teeth.

To be honest, bad things sometimes happen to Hammerwood's teeth. It isn't pretty up close.

Sometimes it gets so bad that ...
some of his teeth fall out!

He needs those teeth for chewing but he can't grow new ones.

So what does he do?
Delores has a problem, too.

Her cousin Beena swims over every week and asks to borrow her jewelry.
Beena wants to decorate all her tentacles for her Saturday night dances ...
but Delores wants to decorate all HER tentacles for her Saturday night swims with Nelson.

How can they split the jewelry so that they both have as much as they want?
Here is how the animals solve their problems ...
Gracie moves over to a special infinite sticky strip in the grass... and stands behind the new pair of shoes.
She gives each left leg a little shake ... then steps out of each left shoe ...
and into the one in front of it.

There is no shoe left over at the back end because her legs go on forever.

Gracie doesn't have a back end!
Now she gives each right leg a little shake ... and steps out of each right shoe...
...and into the shoe in front of it. Now she is wearing her new shoes AND all her old shoes.

Then she moves off the sticky strip ...
and she is ready for a new present.
When Hammerwood's teeth thin out to the point where he only has about one out of three, he snaps into action.

He cleans his remaining teeth with his infinite tooth brush.
Then his friends from the infinite ant colony ... put powerful rubber bands around his teeth.
For technical reasons, the first two bands are anchored to a stick.

The rubber bands all contract ...
and slide his teeth back into place.
The ants carry off the rubber bands ...

And Hammerwood's teeth are all set to start chewing again.
On Saturday afternoons, Delores and Beena line up their tentacles... like two infinite hands pressing together. Delores' jewelry falls into a pattern and some of her spots glow.
The glowing spots attract little fish ...

who unclasp all the jewelry ...
and move each piece one step towards Delores' head.

Each piece of jewelry moves inward, and is replaced by TWO pieces that come from behind it!
The fish then move one piece from each pair over to Beena... and swim away.
When this business is all done, Delores has the same pattern of jewelry as she had before ...

and now Beena has it too.
and then the two cousins swim off to their Saturday night fun.
I suppose you might have other questions about the infinite farm.

So let me try to answer a few of them.
How does Beena return the jewelry to Delores?

Easy! On Sunday mornings they meet and reverse the whole process.
Where does Hammerwood get his bubble gum?

Simple. He crawls alongside an infinite tube of the stuff and bites off what he needs.
How can the infinite farm fit on the earth?

The farm doesn't close up like a planet.

Oh, the farm isn't on the earth or on any other planet.
And how do the animals move around without crashing into each other?

Ah, that is a very interesting question!
For one thing, the animals often have very different sizes.

Gracie walks underneath Paddington and they hardly notice each other.
For another thing, the animals are surprisingly acrobatic. Gracie's friend Boopis can roll right over her.
Some of the animals have special tricks.

When another shark wants to pass by Nelson ...

little fish open up part of Nelson's mouth like a door ...

and then the other shark can get through.
And finally, can we VISIT the infinite farm?
Well, it depends on what you mean by "visit". Unfortunately, we're stuck on the earth...

but if you read between the lines of geometry books, you might find the infinite farm there.