

From field to food quiz

1) What is silage?

Silage is grass or another crop which is left to ferment, producing a moist and palatable food source.

- 2) Why can cattle digest tough fibre which pigs, chickens and humans can't? Because they are ruminants (or 'they chew the cud').
- 3) How many litres of water can the rumen (the first part of the stomach) hold? 100 litres
- 4) Cattle have four stomachs (True/ False)

False! It has four compartments, but technically only has one stomach.

- 5) Which greenhouse gas do cows produce in their burps?

 Methane
- 6) What percentage of the energy input into feeding cattle ends up in beef? Only 4%
- 7) Out of these three methods of raising cows in the UK, which one requires the highest proportion of 'pellets' (concentrated plant-material) to be fed to cattle?
 - Intensive Beef Production
 - 18 month Beef Production
 - Grass Beef Production

8) What is a carbon footprint measured in?

Carbon Dioxide Equivalents, which is the equivalent concentration of the CO₂ needed to cause the same atmospheric damage as a corresponding unit of another gas, such as methane.

9) List three processes that contribute to the carbon footprint of beef:

Making pesticides and fertilisers for growing crops for feed Transport of crops, feed, animals, meat Farm machinery Methane emissions from burps Processing, refrigeration and cooking of meat

Bonus Questions!

10) Cows can have best friends (true/ false)

True! Studies carried out by scientists at Northampton University showed that cows that were separated from another cow they recognise had a higher heart rate than when they were placed with their friends within a herd. Stress levels and levels of a hormone known as cortisol were seen to significantly decrease once more when the cow was kept with his herd companion.

http://www.theguardian.com/commentisfree/2011/jul/07/cows-best-friends



11) Cows can walk up and down stairs (true/ false)

False! Cows can indeed walk up stairs but cannot come down them again- their knees don't have the ability to bend that way.

http://www.dairymoos.com/interesting-facts-about-cows/

12) Cows don't have fingerprints, they have nose prints instead (true/ false).

True, cows can be identified using their nose prints.

http://www.express.co.uk/fun/top10facts/393776/Top-10-facts-about-cows

13) What is the highest number of calves produced by one cow?

The answer is 39, produced by a cow known as Big Bertha throughout the course of her lifetime.