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# Cloning

# Quiz

## QUESTION:

Which animal is the odd one out?



## ANSWER:

The woolly mammoth is the odd one out – it is not a clone.

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However, there is speculation that such extinct species might be cloned in the future.





# Round 1 – Odd one out

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## EXPLANATION:

The other three animals are clones.

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They are:

- CC the cat (CC stands for 'carbon copy')
- ANDi the rhesus monkey (ANDi stands for 'inserted DNA' backwards)
- Dolly the sheep

## STATEMENT 1:

Human cloning would let women reproduce without men.

True or false?





# Round 2 – True or false

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## ANSWER:

**True!**

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- If human cloning became a reality, women would be able to have babies without men because the DNA would come from the woman's own cells.

## STATEMENT 2:

If you made a clone of yourself it would be the same age as you.

True or false?





## Round 2 – True or false

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**ANSWER:**

**False!**

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- Although a human clone would be genetically identical to you, it would not be the same age as you. All clones start life as babies.

## STATEMENT 3:

The word 'clone' comes from the ancient Greek word meaning 'twig'.

True or false?





# Round 2 - True or False

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**ANSWER:**

**True!**

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- The word *klon* means 'twig' in ancient Greek and refers to the process of growing plants from cuttings.



# Round 3 – Dolly dilemmas

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**How much do you know about the world's most famous sheep?**





# Round 3 – Dolly dilemmas

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## QUESTION 1:

Which year was Dolly born?

A. 1995

B. 1996

C. 1997

D. 1998



# Round 3 – Dolly dilemmas

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## ANSWER:

**B. 1996**

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- Dolly was born on 5 July 1996 at the Roslin Institute in Scotland, although her birth was only announced to the world in early 1997.



# Round 3 – Dolly dilemmas

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## QUESTION 2:

How many unsuccessful attempts were made before Dolly was cloned?

- A. 72
- B. 149
- C. 276
- D. 593



# Round 3 – Dolly dilemmas

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**ANSWER:**

**C. 276**

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- Cloning animals is a tricky business and has an very low success rate of only 3–4%.



# Round 3 – Dolly dilemmas

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## QUESTION 3:

Dolly was named after country singer Dolly Parton – but why?

- A. The scientists were big fans of Dolly Parton's music
- B. Dolly Parton likes sheep
- C. Dolly Parton is famous for her large breasts
- D. Dolly Parton has had lots of cosmetic surgery



# Round 3 – Dolly dilemmas

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## ANSWER:

### C. Dolly Parton is famous for her large breasts

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- The cells used to clone Dolly were taken from the mammary glands of Dolly's mother.