

## Variation

1. What is the scientific word for a living thing?
  
2. What is a species?
  
  
  
3. What is variation?
  
  
  
  
4. What are the two causes of variation?
  - i.
  
  - ii.
  
5. How many chromosomes are there in a human egg cell?
  
  
  
6. How many chromosomes are there in a human sperm cell?
  
  
  
  
7. How many chromosomes are there in a human zygote (fertilised egg cell)?
  
  
  
  
8. Give 3 examples of factors within a human's environment that can cause variation
  - i.
  
  - ii.
  
  - iii.
  
  
  
  
9. Give 3 examples of factors within an animal's environment that can cause variation
  - i.
  
  - ii.
  
  - iii.

10. Give 3 examples of factors within a plant's environment that can cause variation

i.

ii.

iii.

11. Give 2 examples of characteristics that vary discontinuously

i.

ii.

12. Give 2 examples of characteristics that vary continuously

i.

ii.

13. What pattern do we see in graphs that are drawn to show how many individuals have a characteristic that varies continuously. Draw a graph if this helps your explanation.

14. Explain why variation in a species is a good thing for a species long term survival.