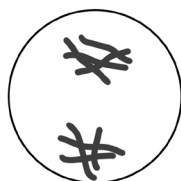


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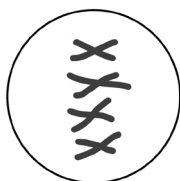
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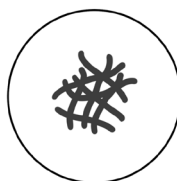
The figure below shows four stages of mitosis, labelled P, Q, R and S.



P



Q



R



S

Which is the correct order for these stages?

A Q → R → S → P

B R → Q → S → P

C R → S → Q → P

D Q → S → R → P

The stage of mitosis labelled S is?

A Anaphase

B Prophase

C Telophase

D Metaphase

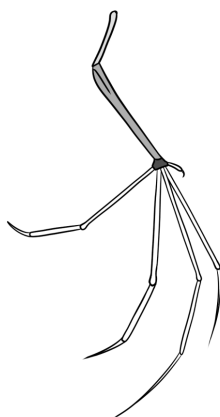
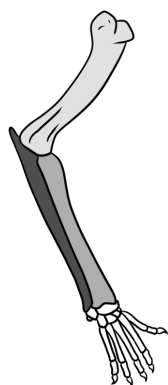
State what hormone is produced by the thyroid gland and state its function.

Hormone: Thyroxine**Function:** Stimulates & maintains metabolic activity.

State what effect increased amounts of ADH have and state where it is produced.

Produced by: Pituitary gland.**Effect:** it increases the permeability of the collecting duct.

The figure below shows the limb of a cat and a bat.



i. What is this limb known as?

The pentadactyl limb.

ii. Name the two naturalists who put forward the theory of evolution by natural selection.

Alfred Russel Wallace and Charles Darwin.

iii. Describe the reasons why the anatomy of the limb above suggests that cats and bats evolved from a common ancestor.

- Same structure of bones/examples of bone structure.
- Accept named example comparison.
- (structure is) unlikely to have occurred more than once during evolution / common ancestor had (the pentadactyl limb structure / similar limb structure).