

1. 'The cerebellum is most active when you perform a sequence of movements where the next movement cannot be predicted in advance.' Give an example of when this may occur.
2. Which structure is a continuation of the spinal cord?
3. How many of each of the following structures are there in the brain?
  - a. cerebellum
  - b. reticular formation
  - c. thalamus
  - d. hypothalamus
4. American movies often depict drunk drivers being asked by a police officer to walk a straight line as a simple and quick measure of a potential drink-driving offence. The drunken driver is shown unable to consistently remain on the line or walk precisely, smoothly and steadily. Considering the driver's impairment, which brain structure is likely to be most affected by the alcohol?



5.
  - a. Doctors have determined that a patient's hindbrain has been injured as the result of an accident. What changes could be expected in the patient's thoughts, feelings and/or behaviour if the injury occurred specifically to the:
    - i. medulla
    - ii. pons?
6. How does the hypothalamus primarily regulate behaviour and the internal bodily state?
7.
  - a. Why is the thalamus described as a 'relay station'?
  - b. What other brain structure consistently relays information?
8. In terms of structure and function, how does the cerebrum in humans differ from that of other animals?