1. (1pt) __________________ is the somatosense that monitors body position and movement, acts to maintain body position, and ensures the accuracy of intended movements.

2. (1.5pts) For the movie we watched in class: what was wrong with the little girl and why would this be a potential problem?

3. (2pts) The sense of touch is based off sensing two things really, ____________ which may be high frequency or low frequency as well as sensing______________.

4. (.5pt) In the parietal lobe of the cortex the somatosensory information is organized:
   a) Topophonetically
   b) Topographically
   c) Topothoracically
   d) In no particular order

5. (2pt/.5ea) Circle all the areas in the brain involved with motor movement
   a) Striatum
   b) Cerebellum
   c) Primary Motor Cortex
   d) Hypothalamus

6. (1pt) Circle the appropriate match: A (an) extensor/flexor refers to a muscle that moves the limb away from the body, while a (an) extensor/flexor refers to a muscle that pulls a muscle towards the body.

7. (1pt) The ___________________________ is the part of the extrafusal muscle fiber where the muscle fiber synapses with the motor neuron.

8. (1pt) When an action potential is generated in a motor neuron, the influx of Ca\(^{2+}\) ions causes the ____ to form cross bridges with the____
   a) myosin heads, actin filaments
   b) myosin heads, myofibril
   c) myosin heads, sarcomere
   d) actin filaments, sarcomere

**(1pt) Bonus: What neurotransmitter is released to cause a muscle contraction?