

Answers to Homework I

1. Naming the anatomical regions:
 - a. Spine (or vertebrae)
 - b. Head
 - c. Trunk
 - d. Limbs

2. What am I?
 - a. Compact bone
 - b. Epiphysis
 - c. Spongy bone
 - d. Marrow
 - e. Diaphysis

3. Bone functions
 - a. Protection
 - b. Storage
 - c. Support
 - d. Movement
 - e. Production of blood cells

4. Bone tissue stores minerals such as calcium and phosphorus. There is also some fat stored in internal cavities.

5. Musculoskeletal system components:
 - a. Ligament
 - b. Cartilage
 - c. Joint
 - d. Synovial fluid

6. What type of joint?
 - a. Semi-moveable joints
 - b. Freely moveable joint
 - c. Fixed joint
 - d. Freely moveable joint
 - e. Semi-moveable joint
 - f. Fixed joint

7. Types of movements:
 - a. **Rotation:** The hand is moving in a circular motion about the wrist. It can rotate approximately 180°.
 - b. **Flexion:** The angle between two the femur and tibia/fibula is reduced, so the joint is flexing. If the leg is brought back down, it is extending.
 - c. **Abduction:** The leg is moving away from the body, so it is abducting. If it is brought back toward the body, then it is adducting.