

THE JOINTS

PART A

Complete the following statements:

1. A _____ of the skull is an example of an immovable fibrous joint.
2. The joint between the first rib and the sternum is _____.
3. The joint at the distal tibia and fibula is _____.
4. Intervertebral discs are composed of _____.
5. _____ are the most common type of joint in the human body.
6. _____ acts as a joint lubricant in synovial joints.
7. The discs of fibrocartilage between the articulating surfaces of the knee are called _____.
8. The fluid-filled sacs sometimes associated with synovial joints are called _____.
9. The symphysis pubis is an example of a(n) _____ joint.
10. Articular cartilage is composed of _____ tissue.

PART B

Match the types of synovial joints in column A with the examples in column B. Place the letter of your choice in the space provided.

Column A	Column B
a. Ball-and-socket	_____ 1. Hip joint
b. Condyloid	_____ 2. Metacarpal-phalanx
c. Gliding	_____ 3. Proximal radius-ulna
d. Hinge	_____ 4. Humerus-ulna of the elbow joint
e. Pivot	_____ 5. Phalanx-phalanx
f. Saddle	_____ 6. Shoulder joint
	_____ 7. Tarsal-tarsal
	_____ 8. Carpal-metacarpal of the thumb
	_____ 9. Carpal-carpal

Laboratory Report 18

Name _____

Date _____

Section _____

SKELETAL MUSCLE STRUCTURE

PART A

Match the terms in column A with the definitions in column B. Place the letter of your choice in the space provided.

Column A

- a. Aponeurosis
- b. Cisterna
- c. Endomysium
- d. Epimysium
- e. Fascia
- f. Fascicle
- g. Myosin
- h. Perimysium
- i. Sarcolemma
- j. Sarcomere
- k. Sarcoplasm
- l. Sarcoplasmic reticulum
- m. Tendon
- n. Transverse tubule

Column B

- _____ 1. Membranous channel extending inward from muscle fiber membrane
- _____ 2. Cytoplasm of a muscle fiber
- _____ 3. Network of connective tissue that extends throughout the muscular system
- _____ 4. Layer of connective tissue that separates a muscle into small bundles called fascicles
- _____ 5. Enlarged portion of sarcoplasmic reticulum on either side of a transverse tubule
- _____ 6. Broad sheet of connective tissue that attaches coverings of adjacent muscles
- _____ 7. Cell membrane of a muscle fiber
- _____ 8. Layer of connective tissue that surrounds a skeletal muscle
- _____ 9. Unit of alternating light and dark striations between Z lines
- _____ 10. Layer of connective tissue that surrounds an individual muscle fiber
- _____ 11. Cellular organelle in muscle fiber corresponding to the endoplasmic reticulum
- _____ 12. Cordlike part that attaches a muscle to a bone
- _____ 13. Protein found within thick myofibril
- _____ 14. A small bundle of muscle fibers

PART B

Provide the labels for the electron micrograph in figure 18.4.

1. _____
2. _____
3. _____
4. _____

Figure 18.1 Structures found in skeletal muscle fibers (cells) (250 \times micrograph enlarged to 700 \times).

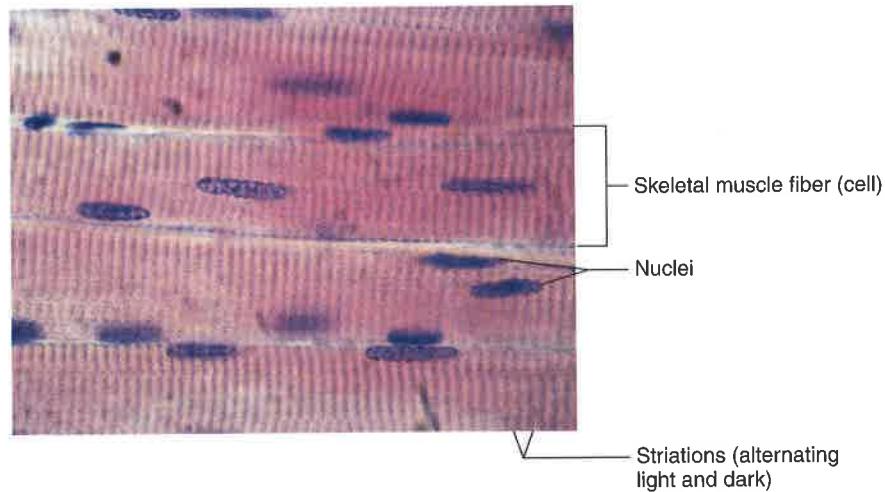
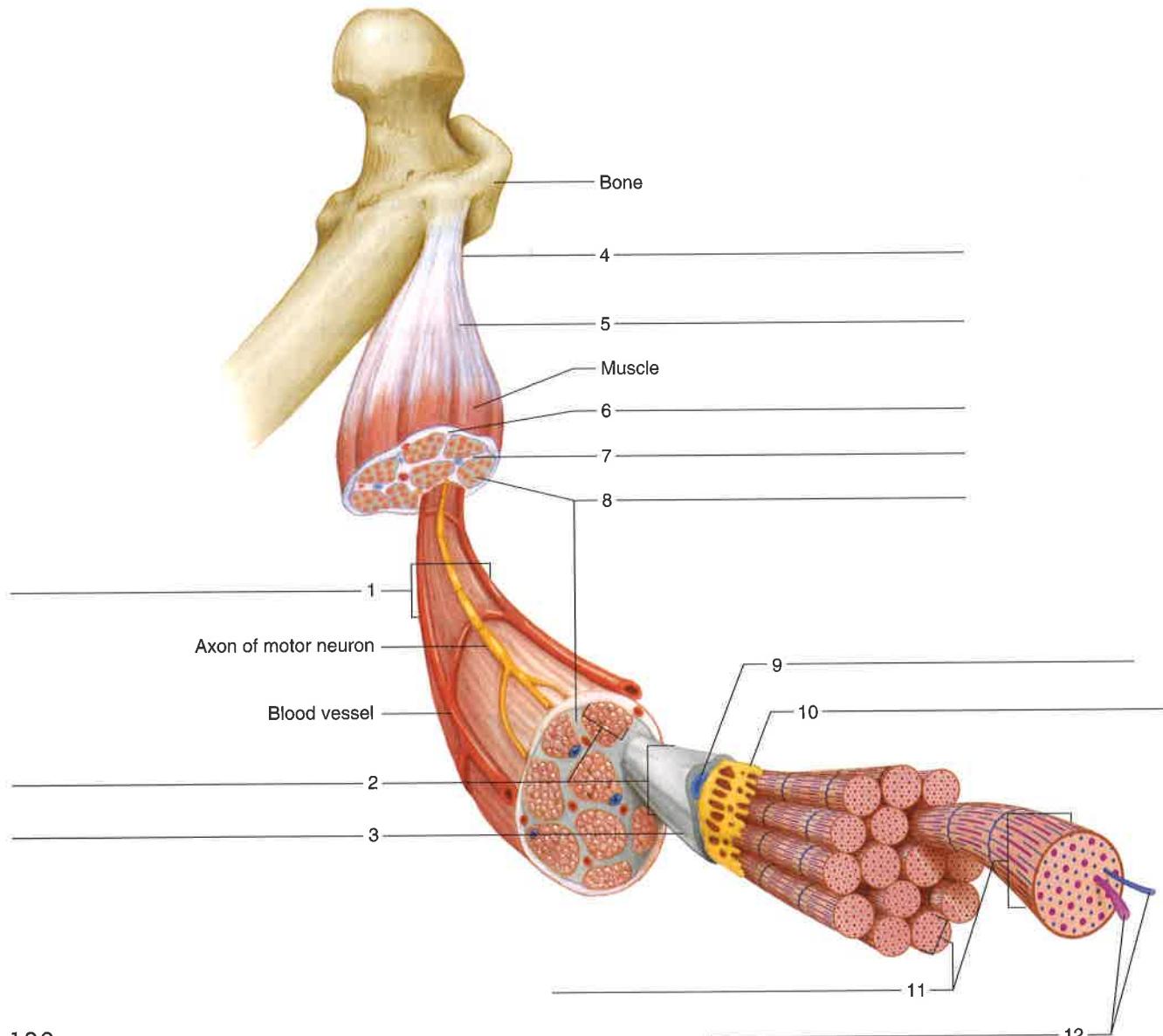
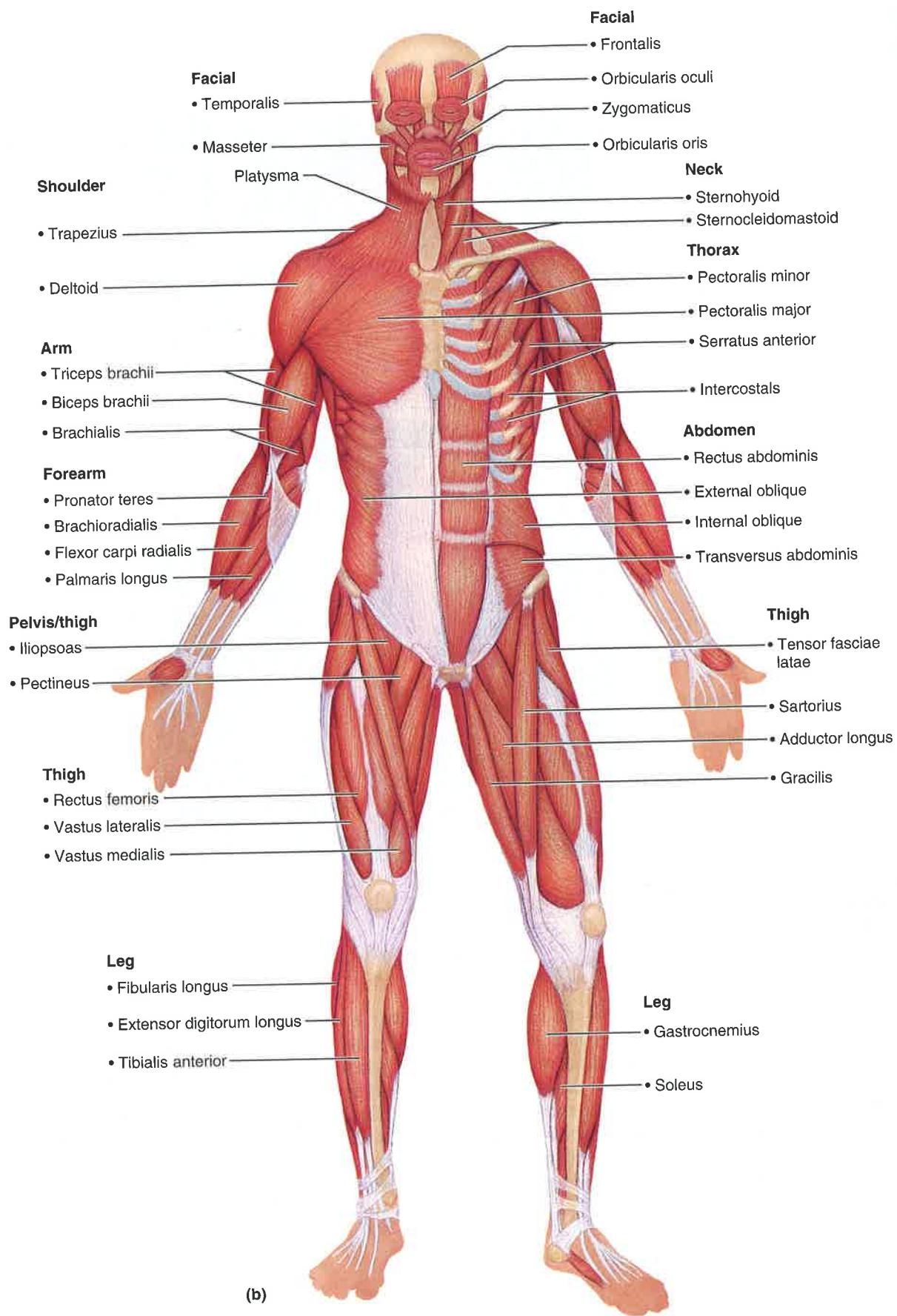
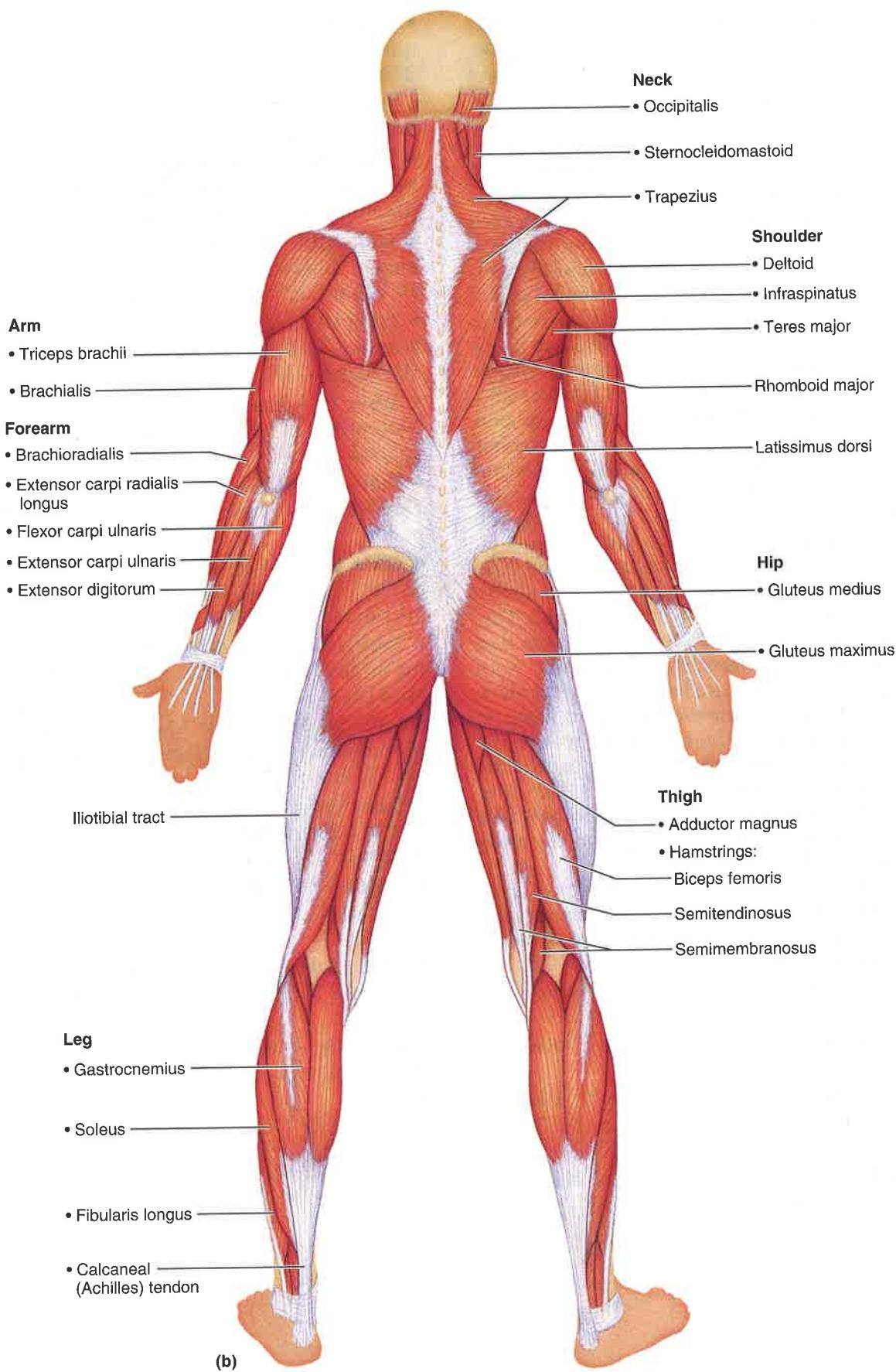


Figure 18.2 Label the structures of a skeletal muscle.





Bra*chi*o*radialis* and bi*c*e*p*s bra*chii* would be used to do pull-ups. The exte*r*nal ob*li*ques and rectus ab*d*ominis muscle would be working during crunches.



(b)

The trapezius. The trapezius and rhomboids.