Name	
Date	
Section	

PECTORAL GIRDLE AND UPPER LIMB

PA	RT A			
Coı	nplete the following	statements:		
	_	76.	_	veen the
	2. The medial ends of the clavicles articulate with the			
3. The lateral ends of the clavicles articulate with the				
	5. The tip of the shoulder is due to the6. At the lateral end of the scapula, the			
0.	from the clavicle.	the scapula, the		curves anterioriy and interioriy
7.	7. The glenoid cavity of the scapula articulates with the of the humo		of the humerus.	
	Column A Carpals Humerus Metacarpals Phalanges Radius Ulna	Column B 1. Capitate 2. Coronoid fossa 3. Deltoid tubero 4. Greater tubero 5. Intertubercular 6. Lunate 7. Olecranon foss 8. Five palmar bo	sity e groove a nes	our choice in the space provided.
		9. Radial tuberosi	ry	
		11. Triquetrum (tr	angular)	

_____12. Trochlear notch

____13. Fourteen bones in digits

(bone) 3

(bone) 4

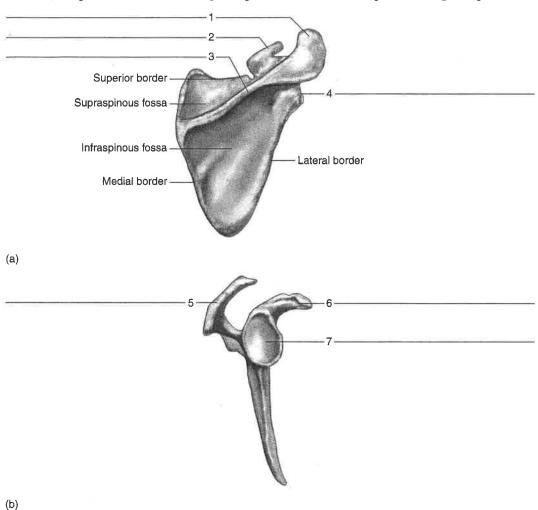
(bone) 5

(bone) 6

(bone)

(bone) 8

Figure 15.2 Label (a) the posterior surface of the right scapula and (b) the lateral aspect of the right scapula.



PROCEDURE B—THE UPPER LIMB

- 1. Review the section entitled "Upper Limb" in chapter 7 of the textbook.
- 2. As a review activity, label figures 15.3, 15.4, and 15.5.
- 3. Examine the following bones and features of the upper limb:

humerus

head

greater tubercle

lesser tubercle

intertubercular groove

anatomical neck

surgical neck

deltoid tuberosity

capitulum

trochlea

medial epicondyle

lateral epicondyle

coronoid fossa

olecranon fossa

radius

head

radial tuberosity

styloid process

ulna

trochlear notch (semilunar notch)

olecranon process

coronoid process

styloid process

head

Figure 15.3 Label the (a) posterior surface and (b) anterior surface of the left humerus.

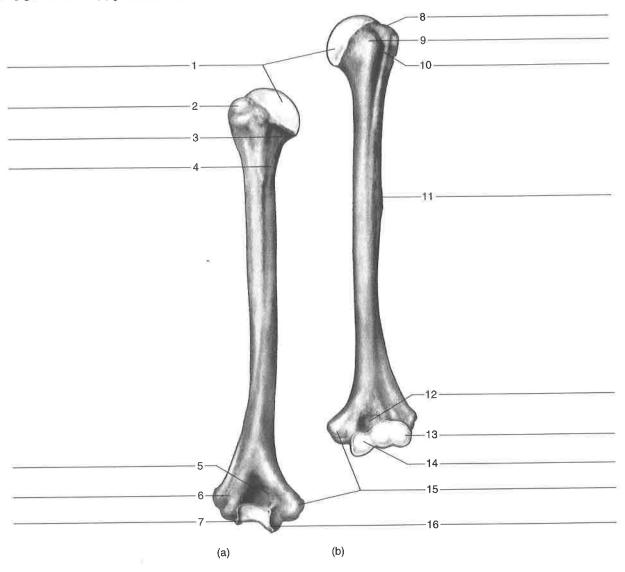
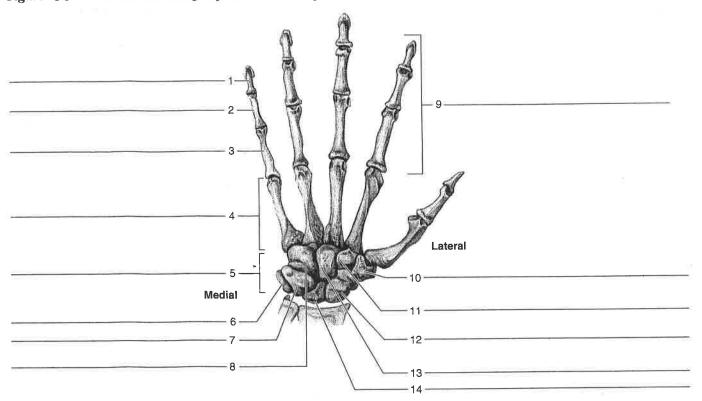


Figure 15.4 Label the major anterior features of the right radius and ulna.

1 6
2 3
3 A
Radius

Ulna

Figure 15.5 Label the bones and groups of bones in this posterior view of the left hand.



carpal bones

proximal row (listed lateral to medial)

scaphoid

lunate

triquetrum

pisiform

distal row (listed medial to lateral)

hamate

capitate

trapezoid

trapezium

The following mnemonic device will help you learn the eight carpals:

So Long Top Part Here Comes The Thumb

The first letter of each word corresponds to the first letter of a carpal. Notice that this device arranges the carpals in order for the proximal, transverse row of four bones from lateral to medial, followed by the distal, transverse row from medial to lateral, which ends nearest the thumb. This arrangement assumes the anatomical position of the hand.

metacarpal bones

phalanges

proximal phalanx

middle phalanx

distal phalanx

4. Complete Parts B and C of the laboratory report.

OPTIONAL ACTIVITY

Use different colored pencils to distinguish the individual bones in figure 15.5.



Web Quest

What are the functions of individual bones and features? Search these and review the anatomy of the skeleton at www.mhhe.com/shieress8

Name	
Date	
Section	

Muscles of the Chest, Shoulder, and Upper Limb

PART A

Match the muscles in column A with the actions in column B. Place the letter of your choice in the space provided.

	Column A		Column B
a. b. c. d.	Brachialis Coracobrachialis Deltoid Extensor carpi ulnaris	2.	Abducts arm Pulls arm forward and across chest Flexes and adducts hand at the wrist
f. Flee g. Infi h. Pec i. Pec j. Pro k. Rho l. Ser m. Sur n. Ter	Flexor carpi ulnaris Flexor digitorum profundus Infraspinatus Pectoralis major Pectoralis minor Pronator teres Rhomboideus major Serratus anterior Supinator Teres major Triceps brachii		Raises and adducts scapula Rotates forearm medially
			Raises ribs in forceful inhalation or pulls scapula forward and downward
			Rotates forearm laterally Used to thrust shoulder anteriorly, as when pushing something
			Flexes the forearm at the elbow Flexes and adducts arm at the shoulder along with pectoralis major
			Extends the forearm at the elbow
		13.	Extends, adducts, and rotates arm medially Extends and adducts hand at the wrist
			Rotates arm laterally Flexes distal joints of fingers 2-5