16

Name	
Date	
Section	

PELVIC GIRDLE AND LOWER LIMB

PART A	
Complete the follo	wing statements:
1. The pelvic gird	le consists of two
2. The head of th	e femur articulates with the of the coxa.
3. The	is the largest portion of the coxa.
•	es come together anteriorly to form the joint called the
	is the portion of the ilium that causes the prominence of the hip.
	sits, the of the ischium supports the weight of the
body.	
	ed by the pubic bones below the symphysis pubis is called the
	is the largest foramen in the skeleton.
9. The ilium joins	the sacrum at the joint.
PART B Match the bones in	column A with the features in column B. Place the letter of your choice in the space provided.
Column A	Column B
a. Femur	1. Middle phalanx
b. Fibula c. Metatarsals	2. Lesser trochanter
d. Patella	3. Medial malleolus
e. Phalanges f. Tarsals	4. Fovea capitis
g. Tibia	5. Calcaneus
	6. Lateral cuneiform
	7. Tibial tuberosity
	8. Talus
	9. Cuboid
	10. Lateral malleolus
•	11. Located in a tendon over the knee
	12. Five bones that form the instep

Figure 16.1 Label the bones of the pelvis (posterior view).

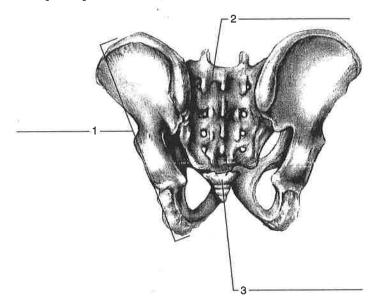


Figure 16.2 Label the lateral features of the left coxa.

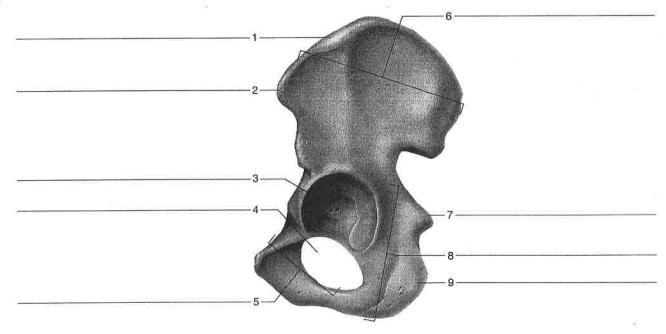
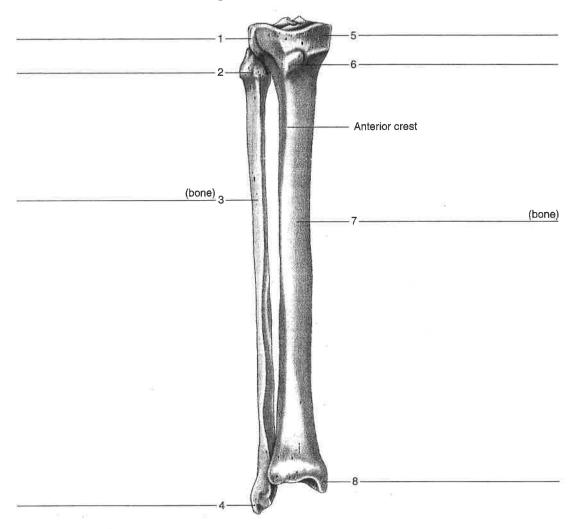


Figure 16.4 Label the bones and features of the right tibia and fibula in this anterior view.



tibial tuberosity

anterior crest

medial malleolus

fibula

head

lateral malleolus

tarsal bones

talus

calcaneus

navicular

cuboid

lateral cuneiform

intermediate cuneiform

medial cuneiform

metatarsal bones

phalanges

proximal phalanx

middle phalanx

distal phalanx

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

Figure 16.3 Label the features of (a) the anterior surface and (b) the posterior surface of the right femure Linea aspera (b) (a)

PROCEDURE B—THE LOWER LIMB

- 1. Review the section entitled "Lower Limb" in chapter 7 of the textbook.
- 2. As a review activity, label figures 16.3, 16.4, and 16.5.
- 3. Examine the bones of the lower limb and locate each of the following:

femur

head

fovea capitis

neck

greater trochanter

lesser trochanter

linea aspera

lateral condyle

medial condyle

lateral epicondyle

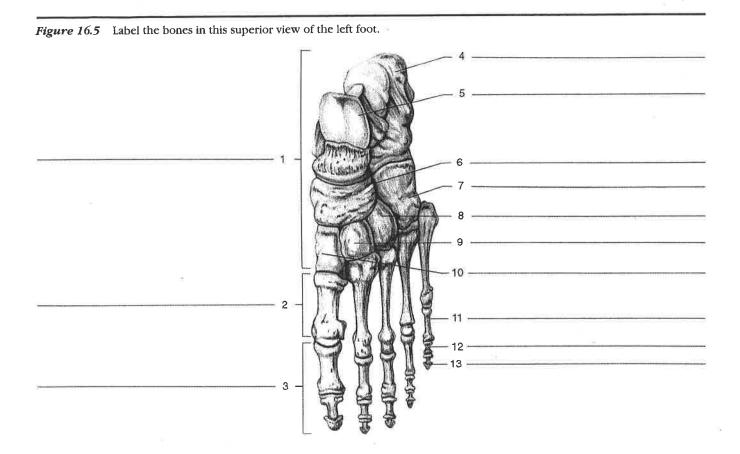
medial epicondyle

patella

tibia

medial condyle

lateral condyle



OPTIONAL ACTIVITY

Use different colored pencils to distinguish the individual bones in figure 16.5.



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	1.

Muscles of the Hip and Lower 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		Column B
b. c. d. e. f. g.	Column A Biceps femoris Gluteus medius Gracilis Peroneus (fibularis) longus Psoas major and iliacus Quadriceps femoris group Sartorius Tibialis anterior		 3. 4. 6. 	Column B Adducts thigh Plantar flexion and eversion of foot Flexes thigh at the hip Abducts thigh and rotates it laterally Abducts thigh and rotates it medially Flexes the leg at the knee Extends the leg at the knee
	-	*	8.	Dorsiflexion and inversion of foot

PART B

Name the muscle indicated by the following combinations of origin and insertion.

	Origin	Insertion	Muscle
1.	Lateral surface of ilium	Greater trochanter of femur	
2.	Ischial tuberosity	Posterior surface of femur	
3.	Anterior superior iliac spine	Medial surface of tibia	
4.	Lateral and medial condyles of femur	Posterior surface of calcaneus	#
5.	Anterior iliac crest	Fascia (iliotibial band) of the thigh	
6.	Greater trochanter and posterior surface of femur	Patella to tibial tuberosity	
7.	Ischial tuberosity	Medial surface of tibia	
8.	Medial surface of femur	Patella to tibial tuberosity	
9.	Posterior surface of tibia	Distal phalanges of four lateral toes	
ιο.	Lateral condyle and lateral surface of tibia	Cuneiform and first metatarsal	