Name Arianna Pilla Lab Time/Date Bio 2311 2:30-5:00 pm

The Language of Anatomy

Surface Anatomy

 Match each of the numbered descriptions with the related term in the key, and record the key letter or term in front of the description.

Key: a. buccal b. calcaneal

c. cephalicd. digital

e. patellarf. scapular

Bural

1. cheek

_pattelar

4. anterior aspect of knee

digits

2. fingers

calcaneal

5. heel of foot

Scapular

3. shoulder blade region

cephalic

6. head

2. Indicate the following body areas on the accompanying diagram by placing the correct key letter at the end of each line.

Key:

a. abdominal

b. antecubital

c. brachial

d. cervical

e. crural

f. femoral

g. fibular

h. gluteal

i. lumbar

j. occipital

k. oral

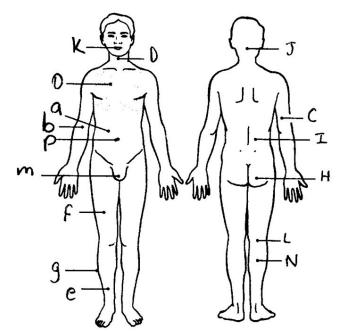
I. popliteal

m. pubic

n. sural

o. thoracic

p. umbilical



3. Classify each of the terms in the key of question 2 above into one of the large body regions indicated below. Insert the appropriate key letters on the answer blanks.

B, C, E, F, G, L, N 1. appendicular

A, D, H, I, J, K, M, OP axial

Body Orientation, Direction, Planes, and Sections

4. Describe completely the standard human anatomical position. Standing erect, feet together, head and hoes pointed forward, arms hanging at sides with palms howard

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5. Define section. A cut along on imaginary plane through the body wall or organ

6. Several incomplete statements are listed below. Correctly complete each statement by choosing the appropriate anatomical term from the key. Record the key letters and/or terms on the correspondingly numbered blanks below. Some terms are used more than once.

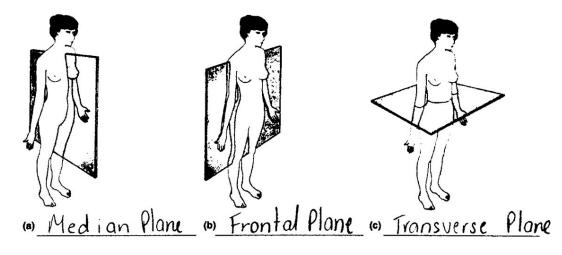
Key:a.anteriord.inferiorg.posteriorj.superiorb.distale.lateralh.proximalk.transversec.frontalf.mediali.sagittal

In the anatomical position, the face and palms are on the <u>1</u> body surface; the buttocks and shoulder blades are on the <u>2</u> body surface; and the top of the head is the most <u>3</u> part of the body. The ears are <u>4</u> and <u>5</u> to the shoulders and <u>6</u> to the nose. The heart is <u>7</u> to the vertebral column (spine) and <u>8</u> to the lungs. The elbow is <u>9</u> to the fingers but <u>10</u> to the shoulder. The abdominopelvic cavity is <u>11</u> to the thoracic cavity and <u>12</u> to the spinal cavity. In humans, the dorsal surface can also be called the <u>13</u> surface; however, in quadruped animals, the dorsal surface is the <u>14</u> surface.

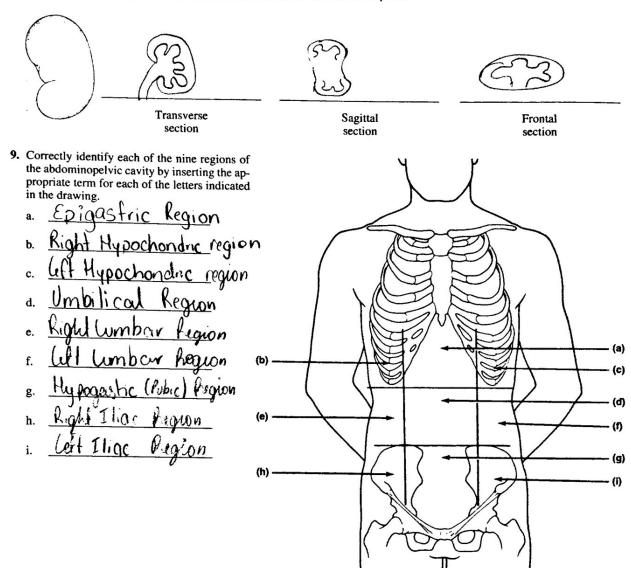
If an incision cuts the heart into right and left parts, the section is a 15 section; but if the heart is cut so that superior and inferior portions result, the section is a 16 section. You are told to cut a dissection animal along two planes so that both kidneys are observable in each section. The two sections that will always meet this requirement are the 17 and 18 sections. A section that demonstrates the continuity between the spinal and cranial cavities is a 19 section.

	and orania carries	Bu 12 Section.
1. Anterior	8. Medial	14. Superior
2. Posterior	9. Proximal	15. Sigittal
3. Superior	10. distal	16. Transverse
4. medial	11. Inferior	17. frontal
5. Superior	12. Anterior	18. Transverse
6. <u>lateral</u>	13. Poskrior	19. Sagittal
7. anterior		•

7. Correctly identify each of the body planes by inserting the appropriate term for each on the answer line below the drawing.



8. Draw a kidney as it appears when sectioned in each of the three different planes.



Body Cavities

- 10. Which body cavity would have to be opened for the following types of surgery or procedures? (Insert letter of key choice in same-numbered blank. More than one choice may apply.)
 - Key: a. abdominopelvic
- c. dorsal
- e. thoracic

- b. cranial
- d. spinal
- f. ventral
- 1. surgery to remove a cancerous lung lobe
- A, F 4. appendectomy

- AF
- 2. removal of the uterus, or womb
- A . F 5. stomach ulcer operation

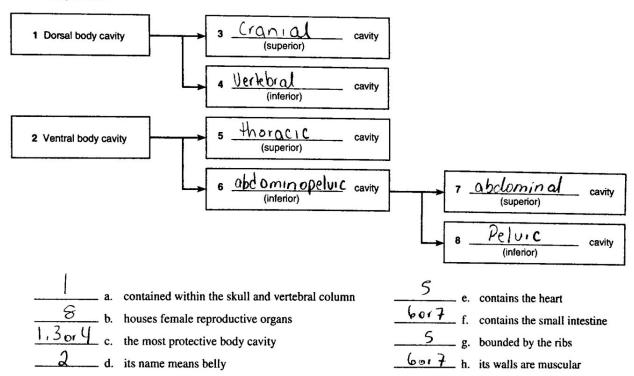
- B,C
- 3. removal of a brain tumor
- D.C
 - 6. delivery of pre-operative "saddle" anesthesia

11.	Name the muscle that subdivides the ventral body cavity. Dia phram
12.	What are the bony landmarks of the abdominopelvic cavity? Hip Bones
13.	Which body cavity affords the least protection to its internal structures? Abdominal
	What is the function of the serous membranes of the body? Produces a worrecting Auc
	body wall with minimal Cochon. Using the key choices, identify the small body cavities described below.
	Key: a. middle ear cavity c. oral cavity e. synovial cavity b. nasal cavity d. orbital cavity
	1. holds the eyes in an anterior-facing position 4. contains the tongue
	2. houses three tiny bones involved in hearing 5. surrounds a joint
	3. contained within the nose

16. On the incomplete flowchart provided below:

- Fill in the cavity names as appropriate to boxes 3-8.
- Then, using either the name of the cavity or the box numbers, identify the descriptions in the list that follows.

Body cavities



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Organ Systems Overview

ventral body cavity.		* :	
Key: a. cardiovascular d. b. digestive e. c. endocrine f.	integumentary lymphatic/immunity muscular	g. nervous h. reproductive i. respiratory	j. skeletal k. urinary
<u>Orinary</u>	1. rids the body of nitro	gen-containing wastes	
Endocrine	2. is affected by removal of the thyroid gland		
Sheletal	3. provides support and levers on which the muscular system acts		
Carchiovascular	4. includes the heart		
Reproductive	5. has a menstrual cycle	e in females	
Integumentary	6. protects underlying	organs from drying out and	from mechanical damage
Lymphalic / Urinary	7. protects the body; de	estroys bacteria and tumor c	ells
<u>Vigestive</u>	8. breaks down ingeste	d food into its building bloc	eks
Pespiratory	9. removes carbon diox	cide from the blood	
Cordiovascular	10. delivers oxygen and	nutrients to the tissues	
Muscular	11. moves the limbs; fac	cilitates facial expression	

1. Use the key below to indicate the body systems that perform the following functions for the body; note that some body systems are used more than once. Then, circle the organ systems (in the key) that are present in all subdivisions of the

2. Using the above key, choose the *organ system* to which each of the following sets of organs or body structures belongs.

12. conserves body water or eliminates excesses

14. controls the body by means of chemical molecules called hormones

15. is damaged when you cut your finger or get a severe sunburn

13. facilitate conception and childbearing

Mes Divatory 4. trachea, bronchi, lungs

Muscular 8. muscles of the thigh, postural muscles

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3.	Using the key below, place the following organs in their proper body cavity.
	Key: a. abdominopelvic b. cranial c. spinal d. thoracic
	A 1. stomach A 4. liver D 7. heart
	A 3. large intestine A 6. urinary bladder 9. rectum
4.	Using the organs listed in question 3 above, record, by number, which would be found in the abdominal regions listed below.
	5, 6, 9 1. hypogastric region 1, 3, 4 4. epigastric region
	2. right lumbar region 3. left iliac region
	3, 5 3. umbilical region 13, 4 6. left hypochondriac region
5.	The levels of organization of a living body are chemical,
	Organ System, and organism.
6.	Define organ. A body part made up of two or more howe types
	that come bacitive to preform a body function
7.	Using the terms provided, correctly identify all of the body organs provided with leader lines in the drawings shown below. Then name the organ systems by entering the name of each on the answer blank below each drawing.
	Key: blood vessels brain heart heart sensory receptor sensory receptor ureter urinary bladder
	Spinal(act heart wishing blood wishing blood visiting blood visiti
	a. Newous Systems b. Cardiovaxular system c. Urinary system
8.	Why is it helpful to study the external and internal structures of the rat? Many of the external and
	internal structures are similar to those in the human.