# The Language of Anatomy

### **Surface Anatomy**

1. 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 cephalic digital

patellar scapular

Potellar Ce)
4. anterior aspect of knee

nuccal (A) 1. cheek digital(d)

calcaneal (b) 5. heel of foot

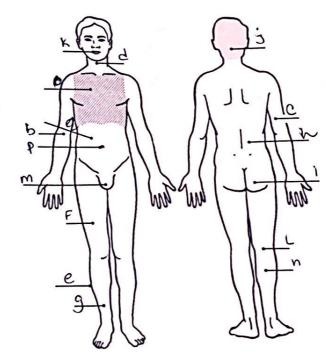
Scapular CF) 3. shoulder blade region

Cophalic (C) 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:

- abdominal
- antecubital b.
- brachial C.
- d. cervical
- crural
- f. femoral
- fibular gluteal
- lumbar occipital
- oral
- 1. popliteal
- pubic
- sural
- thoracic 0.
- 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.

\_\_\_\_\_ 1. appendicular

K, d, O, J, P 2. axial

**Body Orientation, Direction, Planes, and Sections** 

4. Describe completely the standard human anatomical position. is wen the body stands up

Straight and faces forward.

- along with a surgiculthrise or CUT Something being 5. Define section.
- 6. Several incomplete statements are listed below. Correctly complete each statement by choosing the appropriate anatomical term from the key. Passed that the control of t 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. anterior distal b.
- inferior lateral
- g. -posterior proximal sagittal
- superior transverse

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

- anterior
- 8. <u>medial</u>
- 14. <u>Sagittal</u>

- pasterior
- 9. proximal
- 15. <u>Lateral</u>

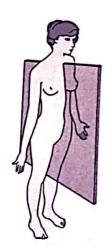
- Sperior
- 10. <u>distal</u>
- 16. <u>trainverse</u>

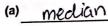
- medial
- 17. Frontal

- 5. superior
- 18. <u>tranverse</u>

- 13. <u>posterior</u>
- 19. \_ Sagital

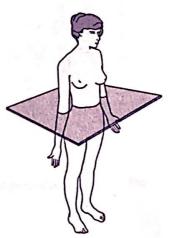
- 7. <u>anterior</u>
- 7. Correctly identify each of the body planes by inserting the appropriate term for each on the answer line below the drawing.





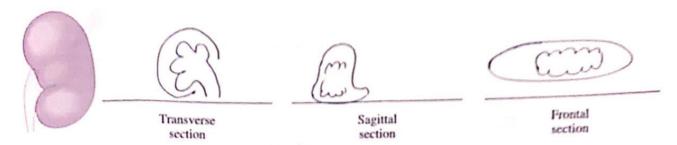


Frontal (b)



Tranverse.

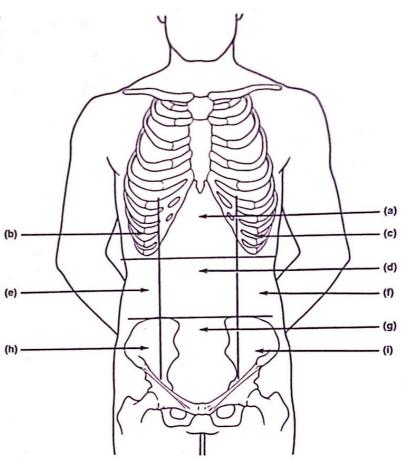
8. Draw a kidney as it appears when sectioned in each of the three different planes.



- 9. Correctly identify each of the nine regions of the abdominopelvic cavity by inserting the appropriate term for each of the letters indicated in the drawing.

  - right lumber

  - 1est iliac



### **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
- dorsal
- thoracic

- b. cranial
- d. spinal
- ventral

- e & F 1. surgery to remove a cancerous lung lobe \_
  - A 4. appendectomy

- - 2. removal of the uterus, or womb
- \_\_\_\_\_ 5. stomach ulcer operation

- B & C 3. removal of a brain tumor
- C, 40. 6. delivery of pre-operative "saddle" anesthesia

#### 14 Review Sheet 1

11. Name the muscle that subdivides the ventral body cavity. Olafforagen

12. What are the bony landmarks of the abdominopelvic cavity? bip bonts.

13. Which body cavity affords the least protection to its internal structures? Qbdlvria &

14. What is the function of the scrous membranes of the body? Surrounds a huch of body carries,

15. Using the key choices, identify the small body cavities described below.

Key: a. middle ear cavity b. nasal cavity

c. oral cavity

e. synovial cavity

1. holds the eyes in an anterior-facing position

d. orbital cavity

4. contains the tongue

a

\_ 2. houses three tiny bones involved in hearing

5. surrounds a joint

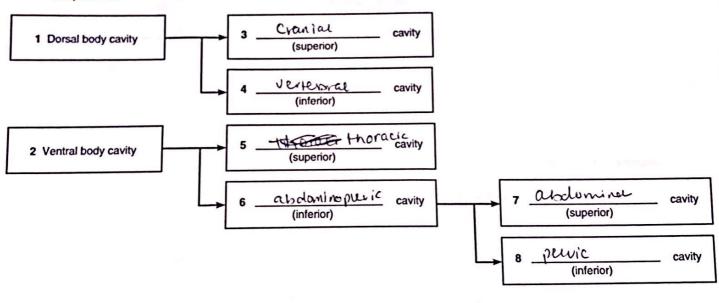
b 3. contained within the nose

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** 



a. contained within the skull and vertebral column

7\_\_\_

e. contains the heart

4

b. houses female reproductive organs

<del>す</del> ゔ f. contains the small intestine

4

\_ c. the most protective body cavity

4

g. bounded by the ribs

\_\_\_2

d. its name means belly

7

h. its walls are muscular

Name		pa
Lab Yie	ne/Date	

## Systems Overview

		Orga	11 3	300111.	,	<b></b>		•
	<ol> <li>Use the key below to indicate the systems are used more than once ventral body cavity.</li> </ol>	: body systems that perf . Then, circle the organ	form the f	ollowing funct (in the key) the	ions for the et are prese	tenty; est in a	, note that some body ill subdivisions of the	W X S
	Key: a. cardiovascular d. b. digestive e. c. endocrine f.	lymphatic/immunity	h.	nervous reproductive respiratory		j. K.	skeletal urinary	3
	Orinary	1. rids the body of i	nitrogen-	containing was	tes			-
	enclocine	2. is affected by ren	noval of t	he thyroid glas	nd			2
	Skeletal	3. provides support	and lever	s on which the	muscular	system	m acts	
	cardiovascular	4. includes the hear	t					6
	reproductive	5. has a menstrual c	ycle in fe	emales				
	integ omentary	6. protects underlying			out and fro	om me	chanical damage	
	lymphaci c	7. protects the body	; destroy	s bacteria and	tumor cell	s		
	agestive	8. breaks down inge	sted food	l into its build	ing blocks	:		
	respiratory	9. removes carbon d	lioxide fr	om the blood				
	Cardiovascur	10. delivers oxygen a	and nutrie	ents to the tiss	ues			
	man musclar	11. moves the limbs;	facilitate	s facial expre	ssion			
	Urinary	12. conserves body w	ater or e	liminates exce	esses			
	endocrine	and peproduct	ir	13. 1	facilitate c	oncep	otion and childbeari	ng
	endooner	4. controls the body	by mean	s of chemical	l molecule	es call	ed hormones	
	integumenteny 1	5. is damaged when	you cut	your finger o	r get a sev	ere su	ınburn	
2.	Using the above key, choose the orga	an system to which ea	ach of th	e following s	ets of orga	ans or	body structures be	longs.
	lympnasic 1. thymus, spleen,	lymphatic vessels	in	ejunentar.	d epiderm organs	is, der	rmis, and cutaneous	sense
-	Skeletal 2. bones, cartilage	s, tendons	reproc	lurie	tactic d	netne	deferenc wrethro	
	ordonie 3. pancreas, pituita	ry, adrenals	dis	esh'a	. icsus, u	uctus	erro intestina master	m
_	-es pivekury 4. trachea, bronchi	, lungs	musc		. esopnag . muscles	gus, ia	deferens, urethra arge intestine, rectu	nuscles

3. Using the key below, place the following organs in their proper body cavity.  **Roy: a. abdominopelvic	o J celow,	tice the fallowing occur				
Listomach  A. Liver  A. Li			ns in their prope	r body cavity.		
Listomach  A liver  A cpigastric region  A cpigastric region  A liver  A li		lvie b cran	ial c.	spinal	d. thoracic	
A 2. esophagus C 5. spinal cord A 8. trachea  4. Using the organs listed in question 3 above, record, by number, which would be found in the abdominal regions listed below.  G 1. hypogastric region 4. epigastric region  3. 2. right lumbar region 3. spinal cord 4. epigastric region  4. Using the organization of a living body are chemical, Cell 7. tissue  Organ Organ System, and organism.  6. Define organ. body organ system or more  1/5. 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 heart nerves spinal cord ureter urinary bladder  Jenton Spinal Cord ureter urinary bladder	l.	stomach	4.	liver	d	heart
4. Using the organis listed in question 3 above, record, by number, which would be found in the abdominal regions listed below.  G 1. hypogastric region 4. epigastric region 5. left iliac region 4. epigastric region 6. left hypochondriac region 6. left hypochondriac region 7. s. the levels of organization of a living body are chemical. Cell 7. tissue 7. organ 845km 1. and organism.  6. Define organ. body gas made up of two or more 1. tissue 6. Define organ systems by entering the name of each on the answer blank below each drawing.  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.  7. We blood vessels heart nerves spinal cord urethra urinary bladder brain kidney sensory receptor ureter urinary bladder 1. or		esophagus	<u>C</u> 5.	spinal cord		
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1. hypogastric region 2. right lumbar region 3. s. left iliac region 4. elit hypochondriac region 5. The levels of organization of a living body are chemical, Ceu , tissue  Organ	4. Using the organs listed	in question 3 above, rec	ord by numb	-111		
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Define organ.  body part made up or two or more  tissues are too exter that came of each on the answer blank below each drawings shown below. Then name the organ systems by entering the name of each on the answer blank below each drawing.  Key: blood vessels heart kidney sensory receptor ureter urethra urinary bladder  brain spinal cord ureter urinary bladder  cord intended  Why is it helpful to study the external and internal structures of the rat? external cord intended						
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