

1

REVIEW SHEET

EXERCISE

The Language of Anatomy



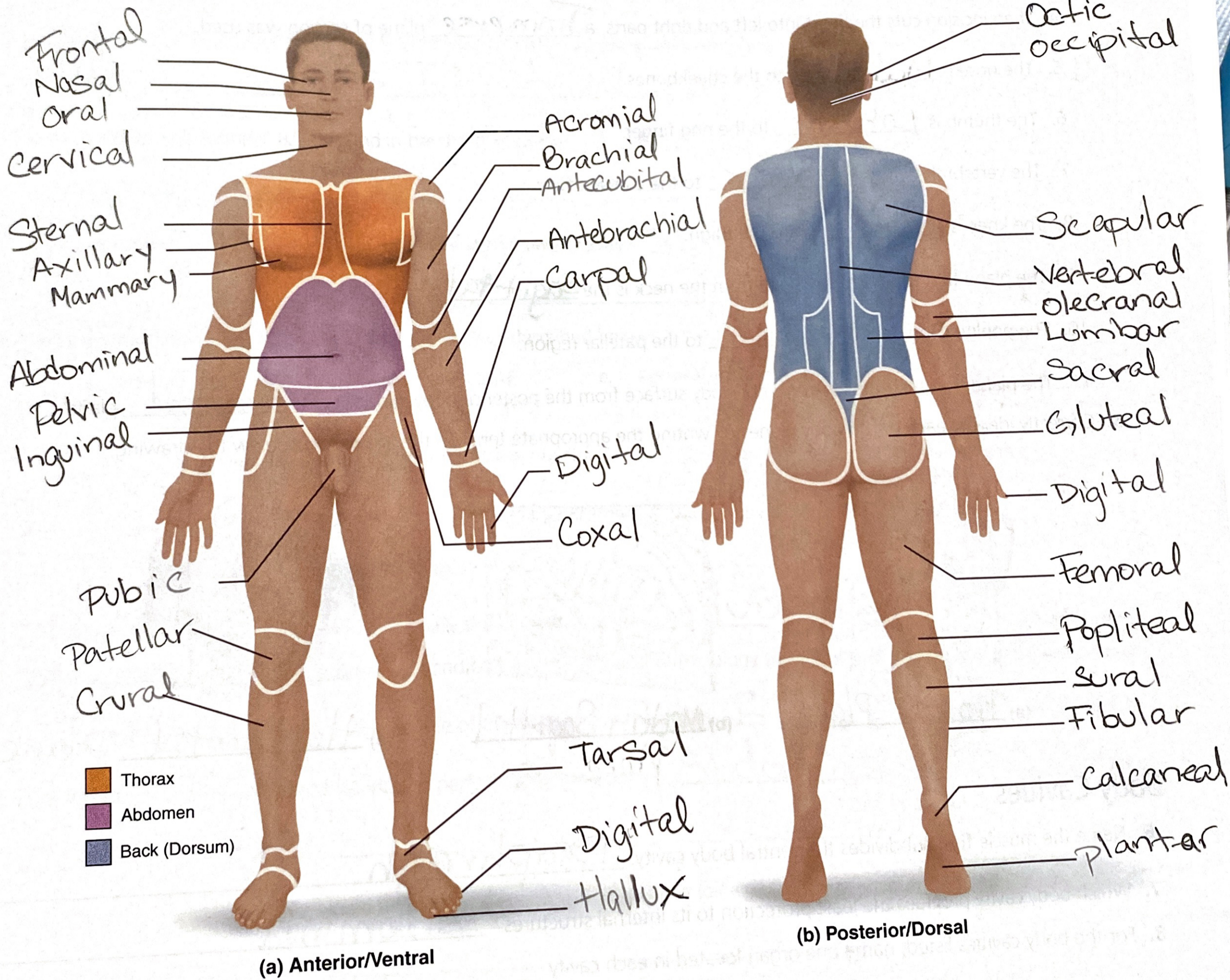
Instructors may assign a portion of the Review Sheet questions using **Mastering A&P™**

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Lab Time/Date 2/10/21

Regional Terms

- Describe completely the standard human anatomical position. The human body is erect with the feet slightly apart, head and toes pointed forward and arms hanging at the side.
- Use the regional terms to correctly label the body regions indicated on the figures below.



Directional Terms, Planes, and Sections

3. Define plane. A cut made along the body plane

4. Several incomplete statements appear below. Correctly complete each statement by choosing the appropriate anatomical term from the choices. Use each term only once.

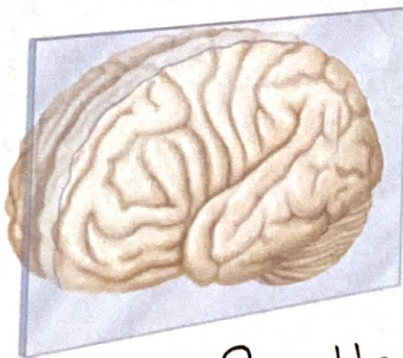
- | | | | |
|----------|----------|-----------|------------|
| anterior | inferior | posterior | superior |
| distal | lateral | proximal | transverse |
| frontal | medial | sagittal | |

- The thoracic cavity is superior to the abdominopelvic cavity.
(chest) / stomach
- The trachea (windpipe) is Anterior to the vertebral column.
/ spine
- The wrist is Proximal to the hand.
- If an incision cuts the heart into left and right parts, a Transverse plane of section was used.
- The nose is Medial to the cheekbones.
- The thumb is Lateral to the ring finger.
- The vertebral cavity is Posterior to the cranial cavity.
- The knee is Distal to the thigh.
- The plane that separates the head from the neck is the Sagittal plane.
- The popliteal region is Inferior to the patellar region.
- The plane that separates the anterior body surface from the posterior body surface is the Frontal plane.

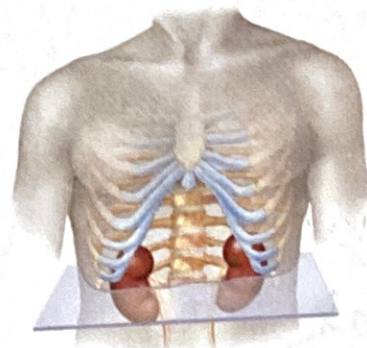
5. Correctly identify each of the body planes by writing the appropriate term on the answer line below the drawing.



(a) Frontal Plane



(b) Median Sagittal Plane



(c) Horizontal Plane

Body Cavities

6. Name the muscle that subdivides the ventral body cavity. Diaphragm

7. Which body cavity provides the least protection to its internal structures? Abdominal

8. For the body cavities listed, name one organ located in each cavity.

1. cranial cavity Brain

2. vertebral cavity Spinal cord

- 3. thoracic cavity Heart and lungs
- 4. abdominal cavity Small & large intestine or gallbladder
- 5. pelvic cavity uterus or Rectum
- 6. mediastinum Thymus gland

9. Name the abdominopelvic region where each of the listed organs is located.

- 1. spleen Upper left (behind the stomach and under diaphragm)
- 2. urinary bladder left lower quadrant or pubic region
- 3. stomach (largest portion) Upper-left or Epigastric region
- 4. cecum right iliac region

10. Explain how serous membranes protect organs from infection. They produce a thin lubricating fluid that prevents friction and infection from spreading.

11. Which serous membrane(s) is/are found in the thoracic cavity? Pleura and pericardium.

12. Which serous membrane(s) is/are found in the abdominopelvic cavity? The peritoneum

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

- Key: a. middle ear cavity e. oral cavity e. synovial cavity
 b. nasal cavity d. orbital cavity

- d 1. holds the eyes in an anterior-facing position e 4. contains the tongue
- a 2. houses three tiny bones involved in hearing e 5. surrounds a joint
- b 3. contained within the nose

14. **+** Name the body region that blood is usually drawn from. Antecubital

15. **+** A patient has been diagnosed with appendicitis. Use anatomical terminology to describe the location of the person's pain. Assume that the pain is referred to the surface of the body above the organ. Right inguinal region

16. **+** Which body cavity would be opened to perform a hysterectomy? Abdominopelvic cavity.

17. **+** Which smaller body cavity would be opened to perform a total knee joint replacement? Synovial cavity.

18. **+** An abdominal hernia results when weakened muscles allow the protrusion of abdominal structures. In the case of an umbilical hernia, parts of a serous membrane and the small intestine form the bulge. Which serous membrane is involved? Peritoneum