

marieb-lab-manual-exercise9.pdf (page 21 of 28) — Edited ~

9 REVIEW SHEET The Axial Skeleton

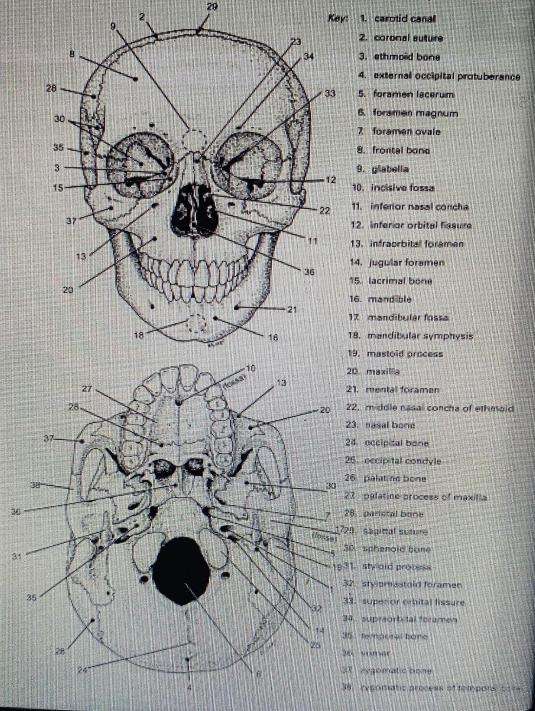
Name _	Husna	Sulthana				Labti	me/Date	
The S	Skull							
1. First	, match th	e bone names ir	ı column P	with the	description			

than once). Then, circle the bones in column B with the descriptions in column A (the items in column B may I than once). Then, circle the bones in column B that are cranial bones.

Column A Column B

B			
0	- 1. forehead bone	a.	ethmoid
	2. cheekbone	Ь.	frontal
	3. lower jaw	c.	hyoid
J	4. bridge of nose	d.	inferior nasal c
K	5. posterior bones of the hard palate	8.	lacrimal
English of Francisco	6. much of the lateral and superior cranium	f	mandible
	7. most posterior part of cranium	g.	maxilla
	single, irregular, bat-shaped bone forming part of the cranial base	h.	nasal
	9. tiny bones bearing tear ducts	i.	occipital
<u> </u>	10. anterior part of hard palate	j.	palatine
A	11. superior and middle nasal conchae form from	k.	parietal
W	its projections	1.	sphenoid
	12. site of mastoid process	m.	temporal
A	13. site of sella turcica	п.	vomer
	14. site of cribriform plate	o.	zygomatic
	15. site of mental foramen		
	16. site of styloid process		
B, A, L, G	17. four bones containing paranasal sinuses		
1	18. condyles here articulate with the atlas		
C	19. foramen magnum contained here		
M	20. small U-shaped bone in neck, where many tongue muscles attach		
N A	21. organ of hearing found here		
	22. two bones that form the nasal septum		
F G	23. bears an upward protrusion, the "rooster's comb," or crista galli		
<u> </u>	24. contain sockets bearing teeth		
	25. forms the most inferior turbinate		

Using choices from the numbered key to the right, identify all bones (——), sutures (——), and bone markings (——) provided with various leader lines in the two diagrams below. Some responses from the key will be used more than an experience.



- 3. Define suture: all but one of the bones of the skull are joined by interlocking joints.
- 4. With one exception, the skull bones are joined by sutures. Name the exception. : The mandible
- 5. What bones are connected by the lambdoid suture? Occipital and parietal bones

What bones are connected by the squamous suture? Temporal and parietal bones

6. Name the eight bones of the cranium. (Remember to include left and right.)

Frontal, left parietal, left temporal, right temporal, right parietal, occipital, sphenoid, ethnoid.

- 7. Give two possible functions of the sinuses. Lighten the skull and act as resonance chambers for speech.
- 8. What is the orbit? A cavity for the eye.

What bones contribute to the formation of the orbit? Ethnoid, sphenoid, lacrimal, maxilla, frontal, zygomatic, and palatine.

9. Why can the sphenoid bone be called the keystone of the cranium? Because it is in contact with all of the other cranial bones.

The Vertebral Column 10'

•	uishing characteristics of the vertebrae composing the vertebral column are noted y identify each described structure by choosing a response from the key.
	1. vertebra type containing foramina in the transverse processes, through which teries ascend to reach the brain
Atlas	_2. dens here provides a pivot for rotation of the first cervical IT vertebra (C1)
Thoracic pointing sharpl	_3. transverse processes faceted for articulation with ribs; spinous process y downward
Sacrum	_4. composite bone; articulates with the hip bone laterally
lumber	_5. massive vertebrae; weight-sustaining
соссух	_6. "tail bone"; vestigial fused vertebrae
Axis condyles.	_7. supports the head; allows a rocking motion in conjunction with the occipital

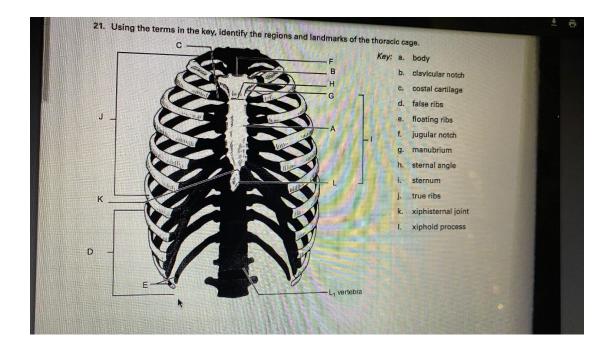
11. Using the key, correctly identify the vertebral parts/areas described below. (More than one choice may apply in some cases.) Also use the key letters to correctly identify the vertebral areas in the diagram.	cally.
Key: a. body b. intervertebral foramina c. Ismina d. pedicle g. transverse process h. vertebral arch i. vertebral foramen	
1. cavity enclosing the spinal cord E 2. weight-bearing portion of the venebra E G 3. provide levers against which muscles pull A G 4. provide an articulation point for the ribs I 5. openings providing for exit of spinal nerves E G 6. structures that form an enclosure for the spinal cord C A D 7. structures that form the venebral arch	
12. Describe how a spinal nerve exits from the vertebral column. exits through an intervertebral foramen	
13. Name two factors/structures that permit flexibility of the vertebral column. presence of intervertebral discs and s-shaped construction of the vertebrae 14. What kind of tissue makes up the intervertebral discs? Fibrocartilage 15. What is a herniated disc? A ruptured disc	
15. What is a herniated disc?	
16. Which two spinal curvatures are obvious at birth? Cervical and lumbar Under what conditions do the secondary curvatures develop? after the child learns to sit up and stand.	

17. A, B,G,E,C,F,D

- 18. The major bony components of the thorax (excluding the vertebral column) are the and the : the ribs and the sternum.
- 19. Differentiate between a true rib and a false rib. 'true ribs' and they are connected to your sternum by strips of cartilage.

ls a floating rib a true or a false rib? False rib

20. What is the general shape of the thoracic cage? Cone shaped



- 22. Are the same skull bones seen in the adult also found in the fetal skull? NO
- 23. How does the size of the fetal face compare to its cranium? The face is smaller

How does this compare to the adult skull? The infant skull is not fully developed

- 24. What are the outward conical projections on some of the fetal cranial bones? **Ossification** centers
- 25. What is a fontanelle? soft spot in the skull of an infant

What is its fate? Ossify completely by the age of 2

What is the function of the fontanelles in the fetal skull? allow the head to mold to fit through the birth canal and allow for brain growth

