

tTara Tu, Dr. Lee, Biol 319, 01/31/2024

Password:

SI Session 4 Worksheet

Main Activity: (40 minutes)

Please answer the following questions.

1. (a) Write the chemical formula for hydroxyapatite. (b) Where is it found and what is the function?
2. Explain the difference between the ureter and urethra.
3. What is edema and explain the association with the lymphatic system.
3. Where do mesenteries attach?
4. Where is the temperature control center?

5. Which of the following is/are true?

- I. Stimuli is taken into our sensory organs and processed in the PNS
- II. Two types of tissues have RMPs
- III. Skeletal muscle is the only type of muscle that has myosin
- IV. Hydroxyapatite is found in the ECM and acts in bone remodeling
- V. Osteoblasts are mature bone cells
- VI. Adema is swelling caused by too much fluid trapped in the body's tissues

6. At most, how many cells away are tissues from a capillary bed?

7. Globet cells secrete ____.

8. What is the mucociliary escalator?

9. GI tract is an ___ organ/system. Why?

10. Explain the difference between desmosomes and gap junctions

-

11. What type of structure is cilia?

12. Explain cystic fibrosis.

-

13. What is the apical vs. basolateral side of an epithelial cell?

14. How close do cells need to be to a capillary bed for proper gas exchange?

15. Explain the function of telomeres

-

16. Define:

- Endoderm
- Mesoderm
- Ectoderm

16. What stage of development do these form?

17. Name two places where keratin is found.

Lab 3 - Appendicular skeleton

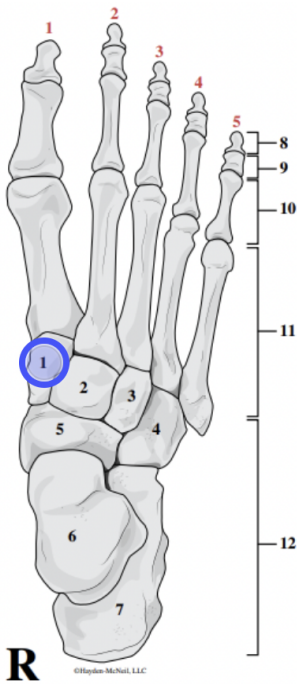
1. What type of fracture is when the bone breaks incompletely?

2. The male pelvis has ____ ischial spines, a ____ pubic arch and pelvic brim, and a ____ curved coccyx.

The female pelvis has a ____ ischial spine, a ____ pubic arch, ____ shaped pelvic brim and ____ coccyx.

3. Label bones 1-7

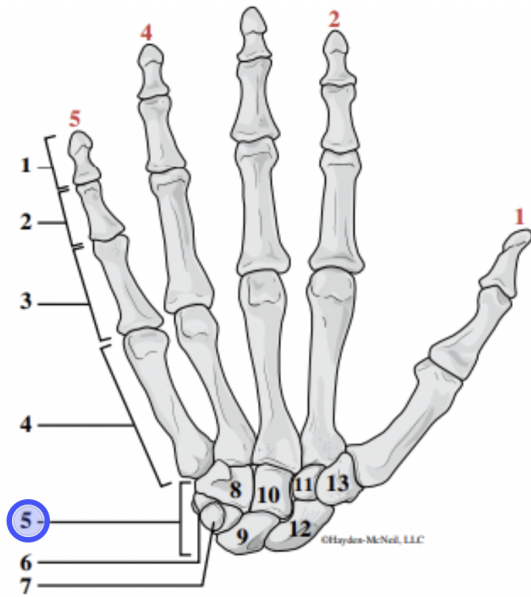
*come up with an acronym to remember the order (whichever order helps you remember best)



Number	Bone
1	
2	
3	
4	
5	
6	
7	

4. Label bones 8 -13

*come up with an acronym to remember the order (whichever order helps you remember best)



Number	Bone
8	
9	
10	
11	
12	
13	