

Part 4 Respiratory System

1. How many lobes are there in the: *Humans*
 - a. Right lung 4 3
 - b. Left lung 3 2

2. Use two words to describe lung tissue.
 - soft
 - spongy

3. What is the name of the large muscle that separates the thoracic cavity from the abdominal cavity? What is its function?
 - Diaphragm
 - assist in breathing by changing pressure in thoracic cavity

4. Does the pig's trachea have cartilage rings just like in humans? Why is this important?
 - yes, keeps the airway open

5. Describe what the larynx looks like externally and internally.

6. Refer to figure 7 (page 260 of the textbook) and your fetal pig to make a diagram of the organs of the thoracic cavity. Include the following: lungs, trachea, larynx, diaphragm, ribs and heart. **Complete this diagram on the back of this sheet**

7. The thoracic cavity is surrounded by a stiff rib cage, while the abdominal cavity has a softer muscular wall. Explain how such structures are beneficial in each case.
 - rib cage gives protection to vital organs while allowing for expansion of the lungs
 - abdominal muscles allow for increased movement and flexibility while allowing the stomach to expand