Name		 	 	
Date D	ue			

Mechanisms of Ventilation Homework

Fill in the blanks with the following words. You	many use words more than once.			
Intercostal, surfactant, ventilation, abdominal,	atmospheric, decreases, increases, elastic, phrenic, visceral.			
1. Breathing can also be called				
2. The weight of air causes a force called	pressure.			
3. If the pressure inside the lungsatmospheric pressure.	, outside air is pushed into the airways by			
4. Nerve impulses are carried to the diaphragn	n by the nerve.			
5. When the diaphragm contracts, the size of t	he thoracic cavity			
6. The ribs are raised by the contraction of the thoracic cavity.	muscles, which increases the size of the			
7. Only a thin film of lubricating serous fluid se of a lung.	parates the parietal pleura from the pleura			
8. A mixture of lipoproteins, called	, acts to reduce the tendency of alveoli to collapse.			
9. The force responsible for normal expiration	comes from recoil and from surface tension.			
10. Muscles that help to force out more than t include the muscles.	he normal volume of air by pulling the ribs downward and inward			
11. The diaphragm can be forced to move high muscles.	er than normal by the contraction of the			
Match each factor with the way it effects breat	hing rate.			
12. Medullary respiratory center	A. Basic rhythms of breathing			
13. Neurons of the pons	 B. Detect levels of carbon dioxide and adjust breathing rate accordingly 			
14. Chemoreceptors	C. Increased lung volume and therefore reduced breathing rate			
15. Inflation reflex	D. Stimulate the muscles of inspiration			
16. Emotions	E. Prevents overinflation			
17. Increased physical fitness	F. During the fight or flight response results in increased			

F. During the fight or flight response results in increased breathing rate