# LABORATORY EXERCISE 46 BREATHING AND RESPIRATORY VOLUMES



## Critical Thinking Application Answers

Aging results in some natural loss of elasticity of the lungs as well as the muscles (diaphragm and intercostal muscles) used in breathing. This can be measured by a vital capacity test.

### **Laboratory Report Answers**

#### PART A

- 1. Ventilation
- 2. Atmospheric
- 3. 760
- 4. Atmospheric pressure
- 5. Phrenic
- 6. Increases

#### PART B

1.	a	5.	d
2.	g	6.	h
3.	e	7.	c
4.	f	8.	b

## PART C

- 1. (experimental results).
- 2. a. Answers will vary.
  - b. Answers will vary.
  - c. A measurement of residual volume is needed.
- 3. Answers will vary.

- 7. External intercostal
- 8. Visceral pleura
- 9. Surfactant
- 10. Elastic recoil
- 11. Internal intercostal
- 12. Abdominal wall