

Chapter 37

Circulatory and Respiratory Systems

Section 37-1 The Circulatory System (pages 1411-1416)

This section describes the circulatory system and its functions.

Functions of the Circulatory System (page 1411)

1. Why do large organisms require a circulatory system? _____

2. What is a closed circulatory system? _____

3. List the three components of the circulatory system.
 a. _____ b. _____ c. _____

The Heart (pages 1411-1416)

4. Is the following sentence true or false? The heart is composed almost entirely of muscle. _____

Match each heart structure with the description.

Structure	Description
_____ a. pericardium	a. Thick layer of muscle on the walls of the heart
_____ b. myocardium	b. Net of tissue that anchors and protects the heart
_____ c. atrium	c. Upper chamber of the heart
_____ d. ventricle	d. Lower chamber of the heart

5. The heart pumps about _____ liters per minute.
6. Dividing the right side of the heart from the left side is a wall called the _____.
7. Is the following sentence true or false? The heart functions as four separate pumps. _____
8. Complete the compare/contrast table.

THE CIRCULATORY SYSTEM

Name of Circulatory Pathway	Side of Heart Involved	Route Blood Follows
Pulmonary circulation		From heart to lungs
	Left side	

9. What happens to blood when it reaches the lungs? _____

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