Name	Class	Date	
Chapter 37 Circulatory and R	Respiratory Systems		
Section 37-1 Th	e Circulatory	<b>System</b> (pages 943–950)	
<ul><li>Key Concepts</li><li>What are the structures o</li><li>What are the three types</li></ul>	, ,		
Functions of the Circu	ılatory System (p	age 943)	
		em?	
2. What is a closed circulator	ry system?		
3. List the three components	of the circulatory system	າ.	
a	_ b	c	
The Heart (pages 944-946) 4. Is the following sentence to		s composed almost entirely of muscle.	
Match each heart structure with	•		
Structure	Description		
5. pericardium			
6. myocardium	<ul><li>b. Sac of tissue that encloses and protects the heart</li><li>c. Upper chamber of the heart</li></ul>		
7. atrium	d. Lower chamber of the heart		
8. ventricle		de is a wall called a(an)	
<b>10.</b> Is the following sentence t pumps.	rue or false? The heart f		
11. Complete the table about			
	THE CIRCULATORY SY	/STEM	
Name of Circulatory Pathway	Side of Heart Involved	Route Blood Follows	

Left side

From heart to lungs

Pulmonary circulation

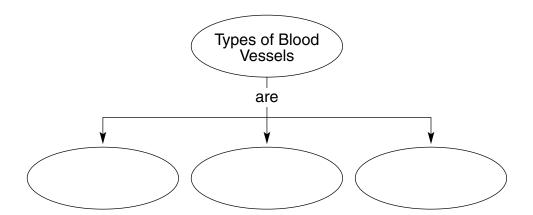
	<b>01</b>	_
Name	Class	Date

- **12.** What happens to blood when it reaches the lungs?
- **13.** Why is the blood that enters the heart from the systemic circulation oxygen-poor?

- 14. Circle the letter of each sentence that is true about blood flow through the heart.
  - a. Blood enters the heart through the right and left atria.
  - **b.** Blood enters the heart through the right and left ventricles.
  - **c.** Blood flows from the ventricles to the atria.
  - **d.** Blood flows out of the heart through the right and left atria.
- **15.** Flaps of connective tissue called \_\_\_\_\_\_ prevent blood from flowing backward in the heart.
- **16.** Each heart contraction begins in a small group of cardiac muscle cells called the \_\_\_\_\_ node.
- 17. Cells that "set the pace" for the beating of the heart as a whole are also called the

## **Blood Vessels** (pages 946-947)

**18.** Complete the concept map.



- **19.** Circle the letter of each sentence that is true about arteries.
  - **a.** Most carry oxygen-poor blood.
- **c.** They have thin walls.
- **b.** They can expand under pressure.
- **d.** The largest is the aorta.
- **20.** The smallest blood vessels found in the body are the \_\_\_\_\_
- 21. What work is done in the capillaries?
- 22. What keeps blood flowing toward the heart in the largest veins?

Name	Class	Date
Blood Pressure (pages 948-	-949)	
23. The force of blood on the wall	s of arteries is known as	
<b>24.</b> Is the following sentence true	or false? Blood pressure	increases when the heart relaxes
Match each type of blood pressure wi	th the force it measures.	
<b>Type of Pressure</b>	Force It Measures	
<b>25.</b> systolic	<b>a.</b> Force of the blood v	when the ventricles relax
<b>26.</b> diastolic	<b>b.</b> Force of the blood v	when the ventricles contract
27. A typical blood pressure read	ing for a healthy person i	s
28. How does the autonomic nerv		
<b>29.</b> How do the kidneys regulate	blood pressure?	
-		
Diseases of the Circulato	ory System (pages 9	49–950)
<b>30.</b> A condition in which fatty dep		
21 High blood procesure also is as	·	
31. High blood pressure also is called 32. Is the following sentence true or false? High blood pressure increases the risk of hear		
attack and stroke.		
<b>33.</b> Circle the letter of each senten		
a. It is caused by atherosclerosis in the coronary arteries.		
<b>b.</b> It occurs when part of the l	,	
c. Its symptoms include naus	· ·	
<b>d.</b> It requires immediate med	•	
<b>34.</b> Is the following sentence true		e caused by a clot in a blood
vessel leading to the brain	•	,
<b>35.</b> List three ways of avoiding ca	rdiovascular diseases.	
a		
b		
с		