Vame _____ Date _____

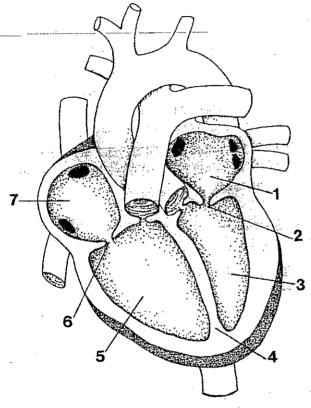
Chapter 22 Circulation

Section Review 22-1

The Circulatory System

On each line, write the name of the part of the heart that has the same number in the diagram. Then fill in the blank to complete the sentence.

left atrium right atrium bicuspid valve septum left ventricle right ventricle tricuspid valve



- 1. _____
- 2.
- 3. _____
- 4. _______
- 5. _____
- 6,
- 7. _____

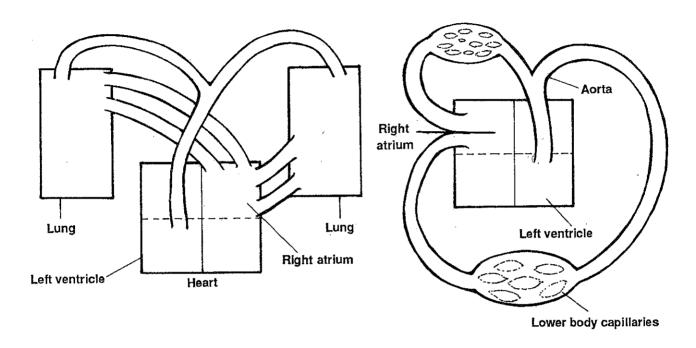
- 8. The valve between the right atrium and right ventricle is called the ______.
- 9. Blood gets pumped from the ______ to the lungs to pick up oxygen.
- 10. The valve between the left atrium and the left ventricle is the _____.
- 11. Blood is pumped from the ______ to the rest of the body.
- 12. The thick wall that separates the heart into two sides is called the _____.
- 13. Oxygenated blood enters the ______ of the heart.

| Chapter 2 | 2 Circulation | Section Review 22-1 | The Circulatory System (continued) |
|---|--|------------------------|--|
| | Read each statement. Indicate whether th (C). Write the correct letter in the space | | tic of an artery (A), vein (V), or |
| 1. | Blood travels through at high pressure | | |
| 2. | Blood travels through at low pressure | | |
| 3. | Carries oxygenated blood away from th | e heart | |
| 4. | Carries deoxygenated blood to the heart | : | |
| 5. | Contains valves to prevent back flow of | blood | |
| 6. | Cell walls that are one cell thick | | |
| 7. | Thick, muscular, elastic walls | | , |
| 8. | Thin, nonmuscular walls | | 20 2. |
| 9. | Where food and oxygen diffuse out of b | plood into body cells. | |
| | t is considered a "normal" blood pressure does hardening of the arteries cause high | | |
| | | | TO AND THE REST OF THE PARTY OF |
| 3. How | can you reduce your risk of heart attack? | | |
| <u> </u> | | | ABOUT TOTAL CONTEST TO |
| 4. What | t causes a heart attack? | | |
| | | | |
| *************************************** | | | |
| 5. What | are some signs of a heart attack? | | |
| | | | |
| **** | | | |
| | | | |

Name _

Pulmonary and Systemic Circulation

Part A: The drawings below show the pathway of pulmonary and systemic circulation. Use a red pencil to trace the path of blood away from the heart, and a blue pencil to trace the path of blood returning to the heart.



Part B: Choose the word or words listed below that will make each statement true. Words may be used more than once.

| | | right ventricle | carbon dioxide | left ventricle | | | |
|----|---|----------------------|----------------|---|--|--|--|
| | | lungs | left atrium | vena cava | | | |
| | | oxygen | aorta | right atrium | | | |
| 1. | Blood from the lungs f | | | and then to the | | | |
| 2. | . As blood travels through the lungs it picks up | | | | | | |
| 3. | When blood enters the right atrium, it contains | | | | | | |
| 4. | Blood from the left ventricle flows into the | | | | | | |
| 5. | The pulmonary system is the circulation of blood to the | | | | | | |
| 6. | When blood passes thr system. | rough the | | it travels through the body or the systemic | | | |
| 7. | Blood goes from the ri | ght ventricle to the | | · | | | |

| Name | | Class | Date |
|------------|-------------|-------|---------------------|
| Chapter 22 | Circulation | | Section Review 22-3 |

Blood

Part A: Study the characteristics of blood in Table 1. Complete the table by placing a check mark in the correct column.

Table 1 Comparing Parts of the Blood

| (| Characteristic | Plasma | Red Blood Cell | White Blood Cell | Platelet |
|-----|--------------------------------|--------|----------------|------------------|----------|
| 1. | Disklike shape | | | | |
| 2. | Shapeless and colorless | | , | | |
| 3. | Liquid part of blood | | | ž., | |
| 4. | Carries oxygen | | | | |
| 5. | Controls clotting | | | | |
| 6. | Phagocytes | | | | |
| 7. | Not living | | | | |
| 8. | Makes antibodies | | | | |
| 9. | Forms mesh over an open wound | | | | |
| 10. | Carries nutrients through body | | | | · |
| 11. | Contains hemoglobin | | | | |
| 12. | Gives blood its color | | | | |

Part B: Complete the following table by filling in the missing information. Then answer the questions.

Table 2

| Blood Type | Antigens | Antibodies | | | |
|------------|----------|-------------------|--|--|--|
| A | A | 1. | | | |
| В | 2. | Anti-A | | | |
| 3. | AB | 4. | | | |
| 0 | 5. | Anti-A and Anti-B | | | |

| 6. | Wha | t would happen if someone with type A blood was given a transfusion with type B blood? |
|----|------|--|
| 7. | Wha | t type of blood can be given to anyone? Why? |
| | | Read each statement below. In the space provided, place an A if the statement refers to Anemia or an atement refers to leukemia. |
| | _ 1. | Internal bleeding; many infections |
| | _ 2. | Blood does not carry normal amounts of oxygen |
| | _ 3. | Millions of abnormal white blood cells are produced |
| | _ 4. | Tired, pale, and unable to tolerate cold |
| | _ 5. | Too few red blood cells |
| | _ 6. | Treated with drugs, radiation therapy, or bone marrow transplants |
| | 7. | Treated with vitamins and eating foods high in iron |

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| Chapter 22 Circulation | | Section Review 22-4 |
| The Lymphatic System | | |
| Answer the following questions in the s | pace provided. | |
| | | |
| 2. What do lymph vessels do? | | |
| Mandala Para and a same a same and a same a | 745.7 ************************************ | · |
| | - 10447777474011107-1-1-107-1-1-1-1-1-1-1-1-1-1-1-1-1 | |
| | | |
| | | |
| 6. Is tissue fluid the same thing as pla | isma? | , |
| 7. What substances need to be dissolv | ved in tissue fluid before they o | can pass through the cell membrane? |
| | | |
| | | |
| | | |
| | | |

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|------|-------|------|---|---|---|--|
| | | | _ | _ | - | |

Chapter 22 Circulation

Vocabulary Review

Circle the correct word in each of the following statements.

- 1. The valve between the right atrium and the right ventricle is the (bicuspid / tricuspid) valve.
- 2. (Plasma / Hemoglobin) is a part of the red blood cell that carries oxygen.
- 3. (Platelets / White blood cells) produce antibodies to fight antigens.
- 4. (Veins / Arteries) carry blood away from the heart.
- 5. The (atrium / ventricle) is the upper chamber of the heart.
- 6. (Arteries / Capillaries) are the smallest of all blood vessels.
- 7. The (aorta / septum) divides the right and left sides of the heart
- 8. (Pulmonary / Systemic) circulation is the way in which blood travels through the lungs.
- 9. The valve between the left atrium and left ventricle is the (bicuspid / semilunar) valve.
- 10. (Leukemia / Anemia) is a common blood disorder in which the red blood cells do not carry normal amounts of oxygen.
- 11. Tissue fluid becomes (blood / lymph) when it enters the lymphatic system.
- 12. The (red blood cell / platelets) help heal wounds by sticking together to form a plug.
- 13. White blood cells fight infection by making (antibodies / antigens).
- 14. The (atria / ventricles) pump blood to the body.
- 15. Lymph (nodes / vessels) clean and filter lymph before it is returned to blood.