Name:	KEY
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## Heart and Circulatory System Review Worksheet

Part A: Define the follow	ring terms in your own word. Be clear and concise!
arterioles	small branches of arteries
arterial duct	connects pulmonary artery to aorta in fetal system to shuttle blood from pulmonary circuit
atria	top chambers of heart, collect blood from body or lungs, pump to ventricles
atrioventricular node	AV node: causes ventricles to contract after receiving signal from SA node
capillaries	microscopic blood vessels with walls one cell wall thick, across which gas exchange occurs
cholesterol	lipid necessary for normal cell function but can build up in arteries causing atherosclerosis
diastole	relaxation of heart muscle
diastolic blood pressure	pressure of blood in an artery when ventricles of heart in diastole
heart attack	myocardial infarction: blood supply to part of beart muscle cut off (usually due to clogged coronary artery)
hypertension	high blood pressure. Prevalent disease in industrialized nations, associated with atherosclerosis
hypotension	low blood pressure
lacteal	inside villi, this is where fats enter the lymphatic system
lymph	tissue fluid that has entered the lymphatic system
lymph nodes	specialized regions along lymph veins where lymph filtered, white blood cells made
lymphocytes	type of white blood cell produced in lymphatic system that makes antibodies
oval opening	in fetus, this opening connects the atria and diverts blood from pulmonary circuit.
pacemaker node	SA node
placenta	membranes and blood vessels across which mother and fetus exchange nutrients
pulmonary circulation	circulation of blood through lungs
septum	divides the two halves of the heart
sinoatrial node	pacemaker node, special nodal tissue that initiates contraction of atria every 0.85 seconds
stroke	part of brain dies due to oxygen starvation because of clogged artery
systemic circulation	circulation of blood from left ventricle through tissues of body and back to right atrium
systole	contraction of heart muscle
systolic blood pressure	pressure of blood in an artery when ventricles contract
thoracic duct	major trunk of lymphatic system, drains lower portions of body
umbilical arteries	carry blood from fetal heart to tissues and placenta
venous duct	connects umbilical vein to vena cava
ventricles	larger lower 2 chambers of heart that pump blood to lungs and rest of body
venules	small branches of veins that connect to capillary beds
formed elements	solid part of blood consisting of eurythrocytes, thrombocytes, leukocytes
clotting	the process of sealing up injuries to CV system, requires plasma proteins and platelets
platelets	thrombocytes, formed elements that function in blood clotting
fibrinogen	inactive form of fibrin, a plasma protein needed for clotting
thrombin	enzyme that activates fibrinogen to fibrin in blood clotting
fibrin	protein fragments that join end to end to form framework of blood clots
antigens	anything (esp. proteins) that can be recognized by antibodies
antibodies	immunoglobulins derived from lymphocytes that specifically bind to invading pathogens
phagocytosis	cell eating: endocytosis of large particles. Many leukocytes (e.g. neutrophils, monocytes) are phagocytes
macrophages	leukocytes formed from monocytes that act as scavangers for bacteria and debris
agglutination	clumping of red blood cells due to antibodies binding antigens on the red blood cells
Rh factor	red blood cell antigen responsible for fetal erythroblastosis
fetal erythroblastosis	condition in which antibodies from a Rh- mother attack the RBC of a Rh+ fetus
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