

Name \_\_\_\_\_

## Blood Cell Worksheet

Remember that a blood is made up two main things including plasma and formed elements.

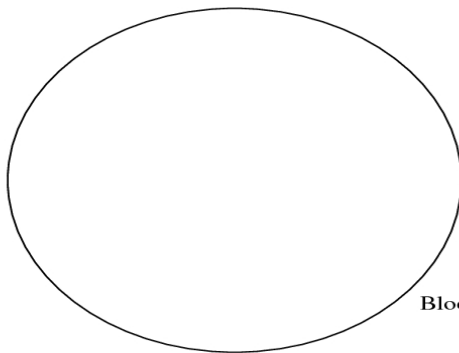
PLASMA (55%)      a. 92 % water      b. 8 % solutes

FORMED ELEMENTS (45%)      a. 95 % (RBCs)      b. 5% (WBCs) and platelets

Create a pie chart for blood that illustrates the **overall** % of each component of blood.

**Directions** (12 points – accuracy and neatness)

1. Calculate the overall % of blood for each of the following components: water, solutes, RBCs, and WBCs/Platelets,
2. Divide each section of the pie chart with the correct part of blood in the correct proportions.
3. Next, color or shade the pie chart with a different color/shade for each part of the blood and create a key or legend for each part.



Blood Composition

### LEGEND

<input type="checkbox"/>	Water
<input type="checkbox"/>	Solutes
<input type="checkbox"/>	RBCs
<input type="checkbox"/>	WBCs/Platelets

### Additional questions:

1. How are WBCs classified? (1 point)
2. What are the three main groups of plasma proteins and which is most abundant? (2 points)
3. Why are nutrients transported in the plasma? Think chemistry! (1 point)
4. Can a mature RBC divide by mitosis? Why or why not? (2 points)
5. Read the "Health Clinic" on page 355 of the Wingerd textbook. From what foods can you obtain the B-complex vitamins and iron necessary for efficient RBC production? (2 points)