

Mr. Ganci

**WARD'S
Simulated ABO and Rh
Blood Typing Lab Activity**

Name: _____
Group: _____
Date: _____

ANALYSIS

Table 1

	Anti-A Serum	Anti-B Serum	Anti-Rh Serum	Blood Type
Slide #1 Mr. Smith				
Slide #2 Mr. Jones				
Slide #3 Mr. Green				
Slide #4 Ms. Brown				

Table 2

Blood Cell Type	Cell Count			Total # of Cells	Avg. # Cells or Total/3	Dilution Factor	Total # Blood Cells per mm ³ or Avg. # Cells x Dilution Factor
	1	2	3				
Red (Red)						150,000	
White (Blue)						5,000	

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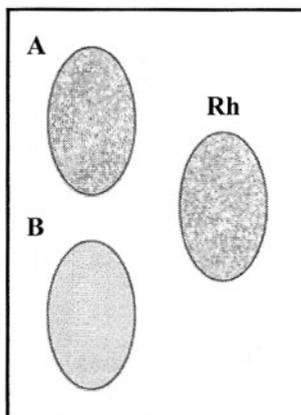
ASSESSMENT

1. a. Choose one of the following patients:
Mr. Smith Mr. Jones
Mr. Green Ms. Brown

Record his/her name here: _____

- b. Using the information shown in Figure 1 on blood type and the data recorded in Table 1, what agglutinogens are present on the patient's RBCs? _____
- c. What ABO agglutinin(s) is/are found in this patient's plasma? _____
- d. What is this patient's blood type? _____
- e. If this patient needed a transfusion, what blood type(s) could this patient safely receive?

- f. What blood type(s) could safely receive this patient's blood? _____
2. Below is a diagram representing the blood type analysis of a new patient (patient X). From the information obtained from the slide, fill out the medical technologist's report.



Medical Technologist's Report

Patient Name: _____
ABO Type: _____
Rh Type: _____
Med Tech Name: _____

7. You are a type A erythrocyte placing an ad in the personals and you are seeking a compatible mate for a long lasting transfusion. Create an ad to be submitted to the newspaper. The newspaper charges \$0.25 per word and the ad can cost no more than \$10.

8. Another important diagnostic tool used by medical technologists is determining a patient's blood cell count, for both red blood cells (erythrocytes) and white blood cells (leukocytes). When this procedure is performed, one technique used is to take multiple samples and calculate the average. This method of multiple sampling is a standard procedure in scientific and medical investigations. Discuss why this method is important in blood typing.

9. Each year thousands of people contract blood borne diseases. What could be done in a clinical blood lab to minimize the risk of obtaining or spreading a blood borne disease?

10. The flowchart below represents a short history of the study of blood and blood typing. The area marked "???" represents possibilities for the next important new discovery in blood and blood typing. In a short paragraph, identify what you think may be the next important breakthrough, milestone or discovery in the study of blood and blood diseases and explain why.

Landsteiner and Weiner

