Name: _____ Group: _____ Date: _____

LAB 56
OBSERVATION

# OBSERVING THE ELEMENTS FOUND IN BLOOD

| STUDENT BOOK | Chapter 6, page 177 |
|---|---|
| TOOLBOX | Pages 23, 25 |

## Goal

Identify elements of blood formed on a blood smear slide.

## Observation criteria

**1.** Complete the following table by describing the elements found in blood.

| Element | Description |
|---|---|
| | |
| | |
| | |

**2.** Identify the element referred to in each of the following statements:

*a)* They contain a transparent nucleus that can be coloured for better observation.

_____

*b)* These elements are found in the highest concentration in blood.

_____

*c)* These are the smallest blood elements.

_____

## Materials

- light microscope
- commercial blood smear slide

## Procedure

***1.*** Place the slide under the microscope.
***2.*** Observe the blood smear at the highest magnification possible.
***3.*** Locate red cells and draw a few examples.
***4.*** Locate white cells and observe the different shapes of the nucleus.
***5.*** Draw each of the following types of white cells:
- ***a)*** lymphocyte (round and voluminous nucleus)
- ***b)*** monocyte (bean-shaped nucleus)
- ***c)*** granulocyte (nucleus containing several granules linked together)

***6.*** Locate platelets and draw a few examples.
***7.*** Put away materials.

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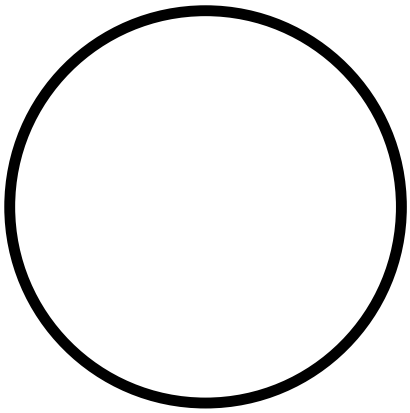
## Observations

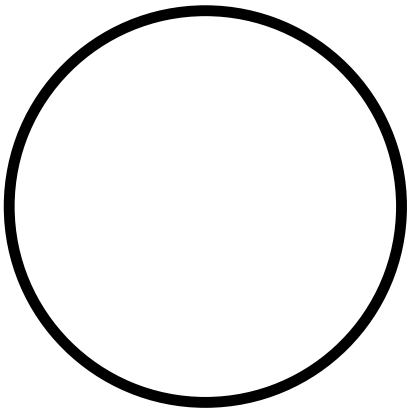
Illustrate your observations in the circles below. Indicate the degree of magnification. Give each circle a title.

**Title:**



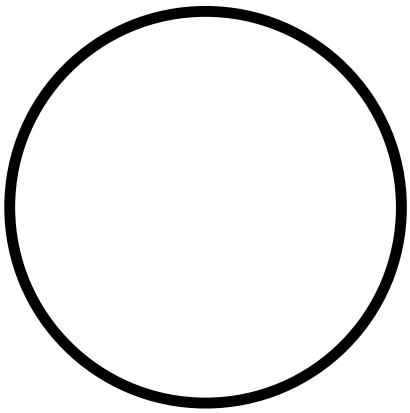
Magnification: _____

**Title:**



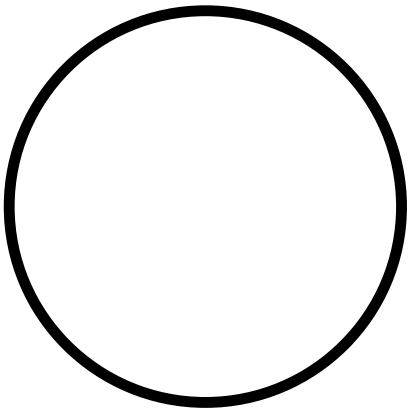
Magnification: _____

**Title:**



Magnification: _____

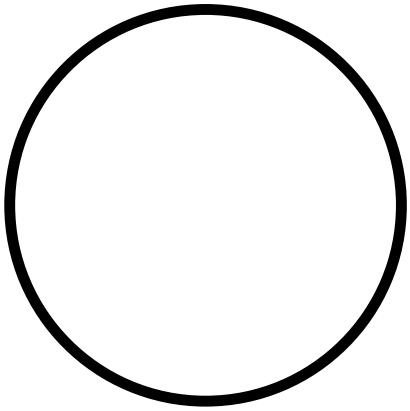
**Title:**



Magnification: _____

Name: _____ Group: _____ Date: _____

**Title:**



Magnification: _____

## Reflecting on your observations

**1.** What organelle is found in white cells and not in other elements of blood?

_____

**2.** How can different types of white cells be differentiated?

_____

_____

**3.** What is the size of platelets in relation to the size of red cells and white cells?

_____

_____

**4.** Do your observations help you to better understand elements found in blood? Explain your answer.

_____

_____

**5.** How could you improve the protocol for this lab?

_____

_____