

# Equipment Practice Answer Guide

## Exercise 1: Basic Pharmacy Tools

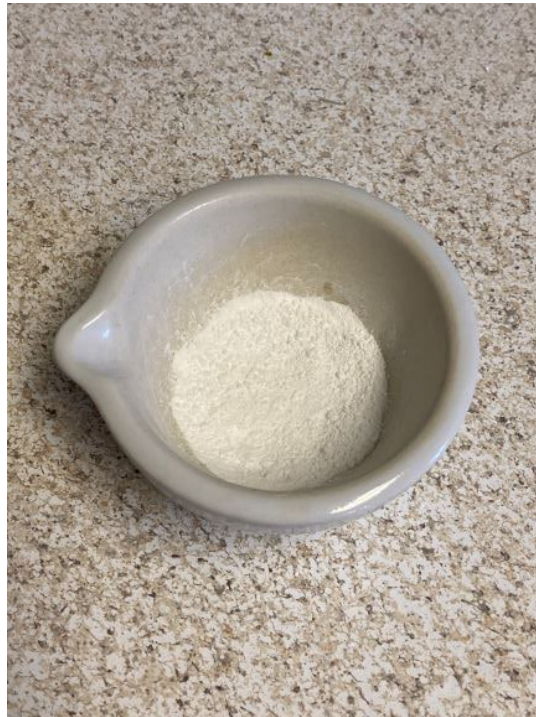
**Photo 1: Filled Tray Well**



**Photo 2: Blended Cinnamon and Cocoa Butter**



**Photo 3: Triturated Powder**



**Photo 4: Initial Graduated Cylinder Volume**



**Photo 5: Final Graduated Cylinder Volume**



**Question 1**

What advantages do you think automated pill counters would have over manual pill counters such as the counting tray used in this exercise? What are some possible disadvantages?

*Some advantages of automated pill counters are that they reduce processing time, counting errors, and potential injury. Some disadvantages are that they are very expensive, can break down, and require maintenance over time.*

**Question 2**

Was the right type of mortar and pestle used for this exercise? Why or why not?

*Yes, as porcelain is an ideal material for crushing and mixing hard ingredients into powders.*

**Question 3**

Why is it important to read volumes in a graduated cylinder at the meniscus?

*Reading the volume at the lowest point of a meniscus ensures consistent and accurate measurements of volume.*

#### **Question 4**

When should you use a pipet to measure liquids instead of a graduated cylinder?

*When measuring small volumes to ensure accurate measurements or when dealing with volatile or sensitive liquids and sterile-dependent solutions.*