SI Pharmacy Technician - Full Discipline Demo

Equipment Practice

Final Report - Answer Guide

Institution Science Interactive University

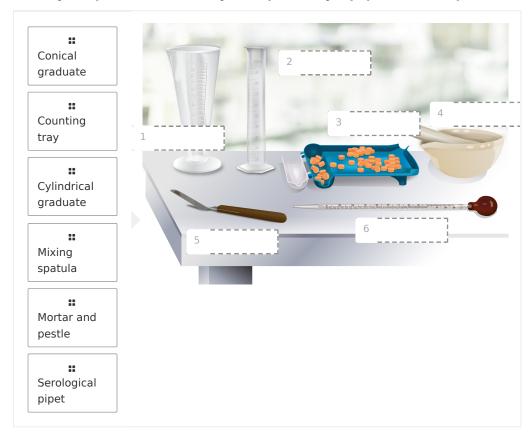
SessionSI Pharmacy Technician - Full Discipline DemoCourseSI Pharmacy Technician - Full Discipline Demo

Instructor Sales SI Demo

Test Your Knowledge



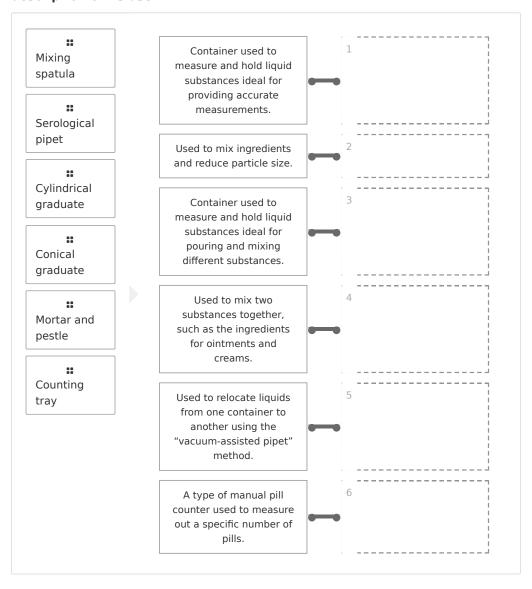
Identify the pieces of commonly used pharmacy equipment in the picture.



Correct answers:

- 1 Conical graduate 2 Cylindrical graduate 3 Counting tray
- 4 Mortar and pestle 5 Mixing spatula 6 Serological pipet

Match the name of each piece of pharmacy equipment with the best description of its use.



Correct answers:

- 1 Cylindrical graduate 2 Mortar and pestle 3 Conical graduate
- 4 Mixing spatula 5 Serological pipet 6 Counting tray

Exploration



| When counting pills using a counting tray, the pills are typically separated into units of | | | |
|--|----------|--|--|
| ○ one | | | |
| ○ two | | | |
| • five | ~ | | |
| ○ ten | | | |
| Cylindrical graduates provide more accurate measurements of volume the conical graduates. | an | | |
| ○ True | ~ | | |
| False | | | |
| The volume in a graduate should be read at the lowest point of the meniscus. | | | |
| ○ True | ✓ | | |
| • False | | | |
| The filler bulb is a hollow tube with markings to indicate the liquid volum | e. | | |
| ○ True | | | |
| ○ False | * | | |
| mortar and pestle units are commonly used for crushing and mixing hard ingredients into powders. | | | |
| Porcelain | ✓ | | |
| ○ Wedgewood | | | |
| ○ Glass | | | |
| | | | |

Exercise 1



| What advantages do you think automated pill counters would have over manual pill such as the counting tray used in this exercise? What are some possible disadvanta | |
|---|-----------|
| | |
| | |
| | |
| Was the right type of mortar and pestle used for this exercise? Why or why not? | |
| | |
| | |
| | |
| | |
| Why is it important to read volumes in a graduated cylinder at the meniscus? | |
| | |
| | |
| | |
| | |
| When should you use a pipet to measure liquids instead of a graduated cylinder? | |
| | |
| | |
| | 0 Word(s) |

Photo 1: Filled Tray-Well (SAMPLE ANSWER BELOW)





Photo 2: Blended Cinnamon and Cocoa Butter (SAMPLE ANSWER BELOW)







Photo 3: Triturated Powder (SAMPLE ANSWER BELOW)

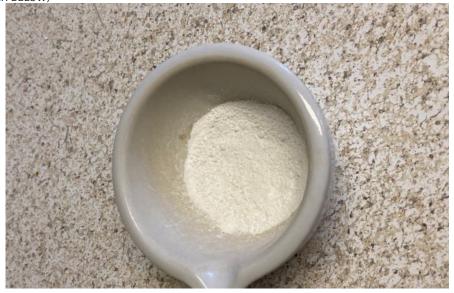






Photo 4: Initial Graduated Cylinder Volume (SAMPLE ANSWER BELOW)





Photo 5: Final Graduated Cylinder Volume (SAMPLE ANSWER BELOW)





Competency Review

| What piece of pharmacy equipment would be ideal to transfer a sterile-dependent solution? | |
|---|----------|
| Serological pipet | ~ |
| Conical graduated | |
| Cylindrical graduate | |
| Mortar and pestle | |
| | |
| Automated pill counters are much larger than manual pill counters and handle large volumes of tablet or capsule-form prescriptions efficiently. | |
| ○ True | ~ |
| False | |
| | |



| the end used for grinding or mixing materials togo | |
|--|----------------------------|
| o mortar | |
| pestle | ✓ |
| spatula | |
| o pill counter | |
| involves mixing solid ingredients into | a cream or ointment unti |
| homogeneous blend is created. | |
| Trituration | |
| Reading a meniscus | |
| Blow-out | |
| Spatulation | ✓ |
| | |
| | |
| oipet must be blown out to release this remaining True False | liquid into the container. |
| True False The ideal material for a mortar and pestle depend | liquid into the container. |
| True False True True True The ideal material for a mortar and pestle depend | liquid into the container. |
| False The ideal material for a mortar and pestle depend True False | liquid into the container. |
| True False True True True The ideal material for a mortar and pestle depend | liquid into the container. |
| True False True True False True True True True True True True Tr | liquid into the container. |



When using a pipet, you should always draw liquid all the way to the cotton at the top of the pipet to make sure you have enough liquid.

| O True | | |
|---------|--|----------|
| ○ False | | ✓ |

Extension Questions

What are some of the benefits to replacing some manual tools (pill counters, pipet fillers, etc.) with their automatic counterparts? Are there any potential drawbacks? (SAMPLE ANSWER BELOW)

Benefits include increased accuracy and decrease in time spent performing tasks. Potential drawbacks include high cost of automated equipment.

