SI Pharmacy Technician - Full Discipline Demo

Compounding - Creams and Ointments

Final Report - Answer Guide

Institution Science Interactive University

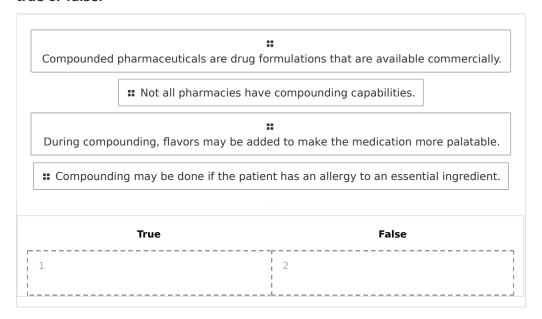
SessionSI Pharmacy Technician - Full Discipline DemoCourseSI Pharmacy Technician - Full Discipline Demo

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Test Your Knowledge



Classify each statement regarding compounded pharmaceuticals as either true or false.



Correct answers:

Not all pharmacies have compounding capabilities.

During compounding, flavors may be added to make the medication more palatable.

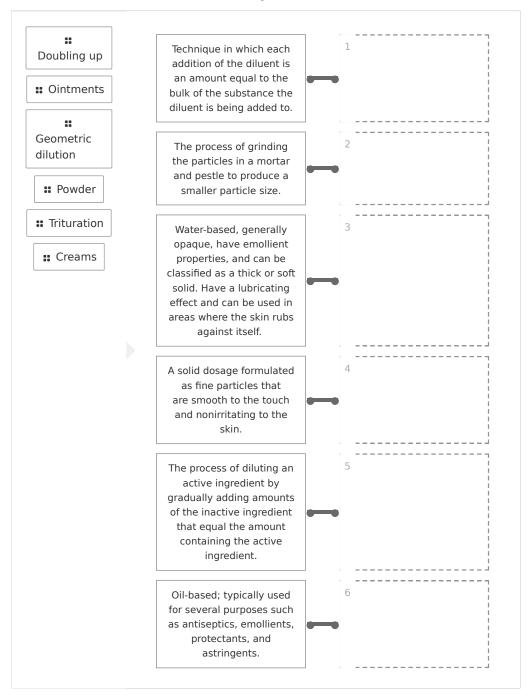
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Compounded pharmaceuticals are drug formulations that are available commercially.

Compounding may be done if the patient has an allergy to an essential ingredient.



Match each term with the best description.



Correct answers:

- 1 Doubling up 2 Trituration 3 Creams 4 Powder
- 5 Geometric dilution 6 Ointments

Exploration

might be prescribed?				
A patient who has difficulty swallowing requires a medication that typically come in pill form to be liquefied.	5 🗸			
 A patient who has difficulty swallowing requires a medication that typically come in liquid form to be in a tablet. 	5			
The patient requires a drug that is readily available on the market.				
The patient doesn't like how the prescribed drug looks.				
Geometric dilution is commonly used during compounding as it ensure thoroughly homogenized mixture.	es a			
○ True	~			
○ False				
The term "lotion" is often used to describe ointments intended for topuse.	oical			
○ True				
○ False	~			
Exercise 1				
What purpose does the sieve serve after trituration of the drug placebo?				

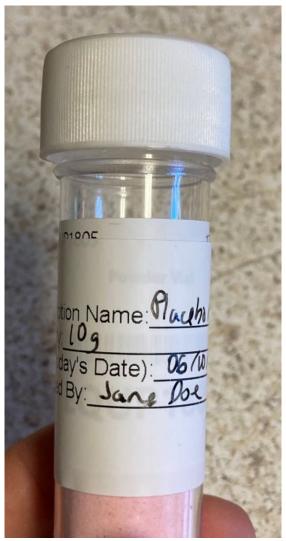


Could you reverse the order of the powders by adding the drug placebo to the baking soda? Why or why not?				
Why did you triturate more powder than was required for the final powder?				
Thy did you create more powder than was required for the inial powder.				

Photo 1: Triturated Powder (SAMPLE ANSWER BELOW)



Photo 2: Packaged Powder (SAMPLE ANSWER BELOW)



Exercise 2
What is geometric dilution and why is it used here?
In this exercise, what represents the active ingredient and what represents the diluent?
What special properties does an ointment have and what are they used for?
Photo 3: Compounded Ointment (SAMPLE ANSWER BELOW)





Exercise 3



hat are they used for?

Photo 4: Compounded Cream (SAMPLE ANSWER BELOW)



Only drugs that come in powder form can be compounded. True False When performing geometric dilution, the diluent is gradually added to the active ingredient. True False When preparing a powder for compounding, particle size is often reduced through a process called ______. geometric dilution doubling up



Competency Review

triturationlevigation

The base of a(n) wil	I not penetrate the human skin barrier.	
ointment		✓
o powder		
○ cream		
diluent		
Because creams are water-base	ed, they are absorbed into the skin.	
○ True		✓
False		
Trituration is only performed to	reduce the particle size of a powder.	
True		
○ False		✓
1		
Petroleum jelly is a potential b	ase ingredient for a compounded	
·		
opowder		
cream		
ointment		✓
A compounded cream is not ful an irregular texture.	ly homogenized if it is not smooth and h	as
○ True		✓
□ False		

Extension Questions

Why is it so important to ensure a homogeneous mixture when compounding a new drug preparation? $(SAMPLE\ ANSWER\ BELOW)$



A homogeneous mixture is crucial to ensure an even distribution of the active ingredient which will ensure consistent dosing of the active ingredient throughout the product.

