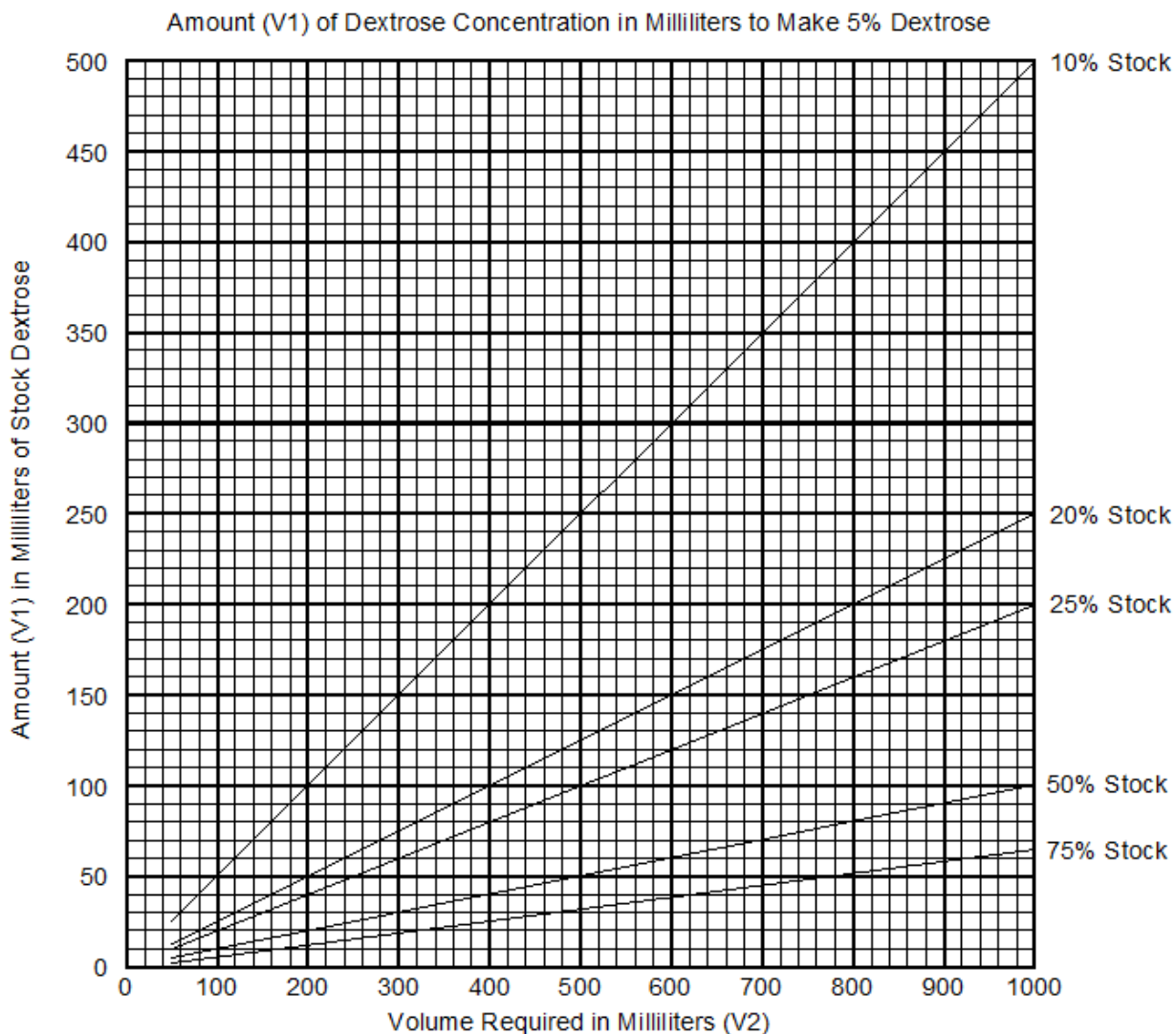


## Vet Tech Mathematics

Name: \_\_\_\_\_

Date: \_\_\_\_\_

- Determine the amount of stock dextrose to make the required volume of 5% dextrose (C2). On the bottom of the graph locate the volume (V2) needed of 5% dextrose. Follow that point vertically to the sloped line representing the stock concentration (C1). Go to the left to determine the amount (V1) in milliliters required.



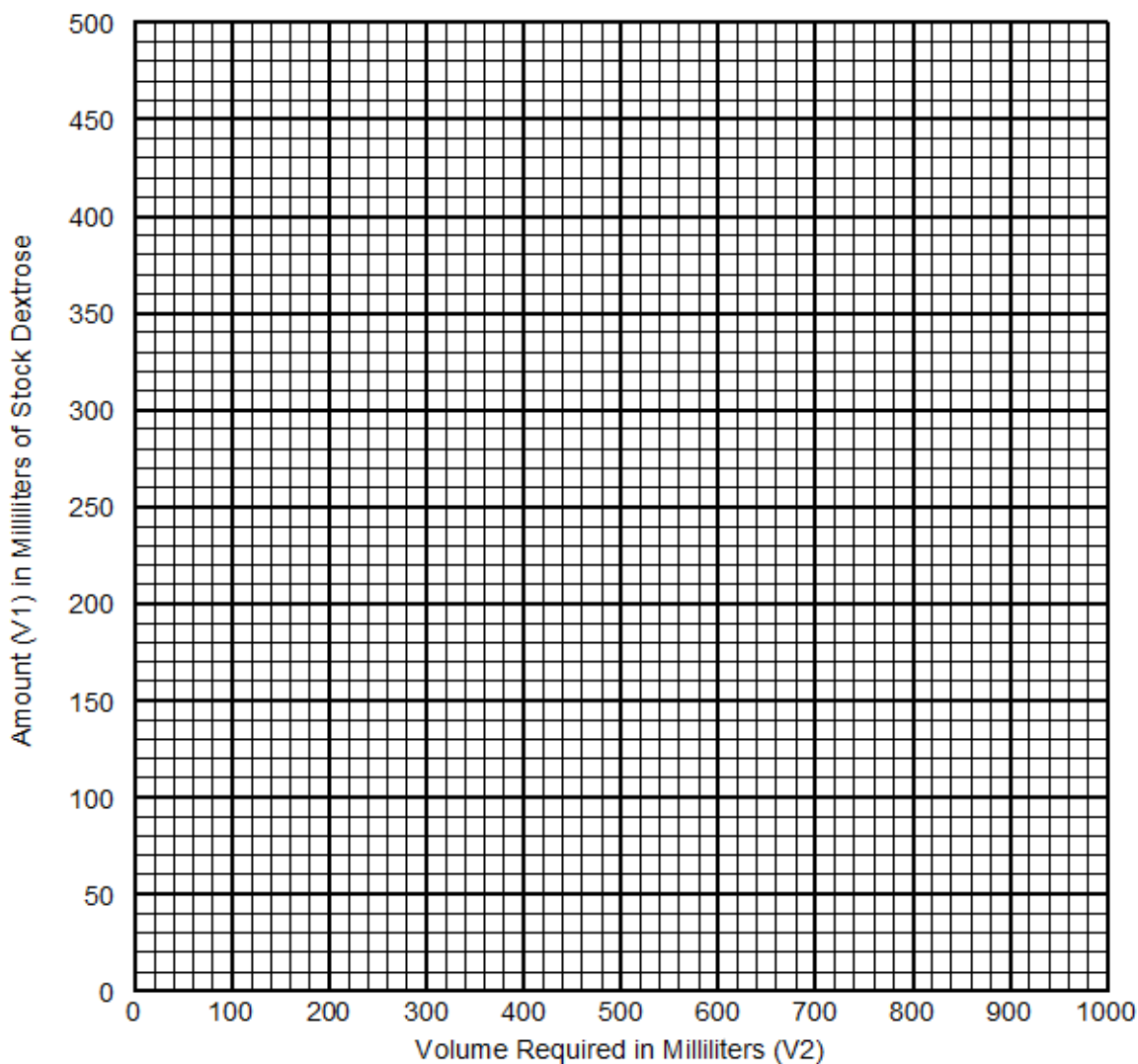
Volume Required	Stock Concentration	Amount of Stock (ml)
250 ml	75%	
800 ml	75%	
300 ml	50%	
850 ml	50%	
350 ml	25%	
900 ml	25%	
150 ml	20%	
1000 ml	20%	
200 ml	10%	
650 ml	10%	

## Vet Tech Mathematics

2. Calculate V1 for 15% and 60% concentration of dextrose. Plot the four points and draw the two lines, one for 15% stock dextrose and one for 60% stock dextrose.

Stock Concentration (C1)	Volume Required (V2)	Concentration Required (C2)	Stock Required (V1)
15%	50 ml	5%	
15%	1000 ml	5%	
60%	50 ml	5%	
60%	1000 ml	5%	

Amount (V1) of Dextrose Concentration in Milliliters to Make 5% Dextrose



3. Determine the amount of stock dextrose to make the required volume of 5% dextrose (C2). On the bottom of the graph locate the volume (V2) needed of 5% dextrose. Follow that point vertically to the sloped line representing the stock concentration (C1). Go to the left to determine the amount (V1) in ml required.

Volume Required	Stock Concentration	Amount of Stock (ml)
250 ml	15%	
800 ml	15%	
300 ml	60%	
850 ml	60%	