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

Company: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Steam is directly injected in a vessel to heat water from 65°F to 135°F and the required flow for the process need is 100 gpm.



* 1. Calculate the steam flow rate required \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Compare the results with the indirect heat exchange application and comment on which method would you recommend for use in your plant.

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1. Use the Steam System Scoping Tool (SSST) on your industrial plant steam system and prepare a high-level list of potential areas for investigation in a steam system energy assessment over the next 6 weeks.

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1. Prepare a line diagram for your steam system showing the boilers, headers, major end-users, and condensate return system. Indicate pressures, steam flows and anything important for your system. (It doesn't have to be pretty.)