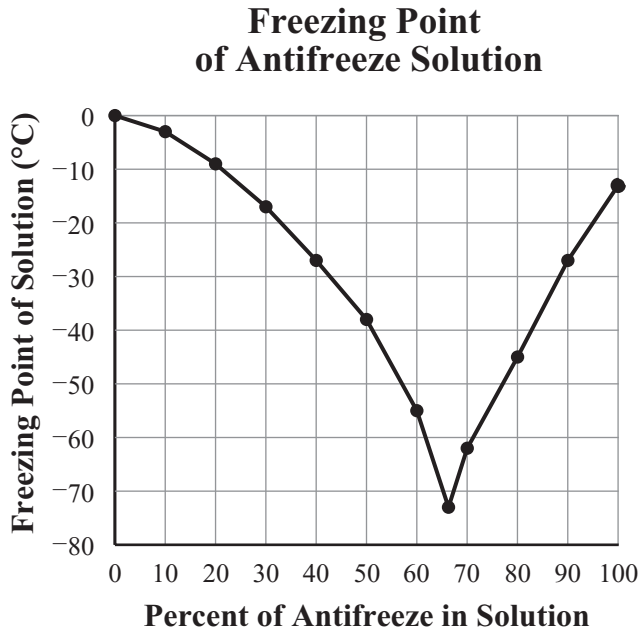


Antifreeze is mixed with water in a car's radiator to help keep the solution from freezing. The graph below shows how the freezing point of a solution of antifreeze and water changes based on the percent of antifreeze in the solution.



- Based on the graph, estimate the percent of antifreeze in a solution of antifreeze and water that has the **lowest** freezing point.
- Compare the freezing point of 1 L of 40% antifreeze solution with the freezing point of 10 L of 40% antifreeze solution. Explain the reasoning for your answer.
- A car mechanic stated that a 50% antifreeze solution provides better protection for the radiator of a car than a 90% antifreeze solution. Is the mechanic's statement correct or incorrect? Include data from the graph to support your answer.