

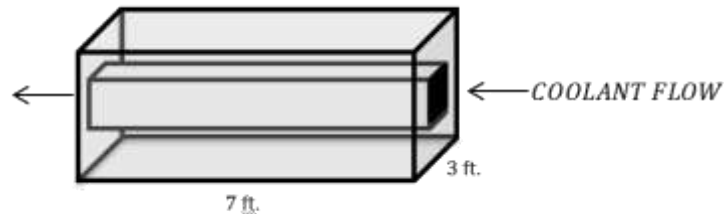
Name _____

Date _____

Lesson 26: Volume and Surface Area

Exit Ticket

1. Lawrence is designing a cooling tank that is a square prism. A pipe in the shape of a smaller $2\text{ ft.} \times 2\text{ ft.}$ square prism passes through the center of the tank as shown in the diagram, through which a coolant will flow.



- What is the volume of the tank including the cooling pipe?
- What is the volume of coolant that fits inside the cooling pipe?
- What is the volume of the shell (the tank not including the cooling pipe)?
- Find the surface area of the cooling pipe.