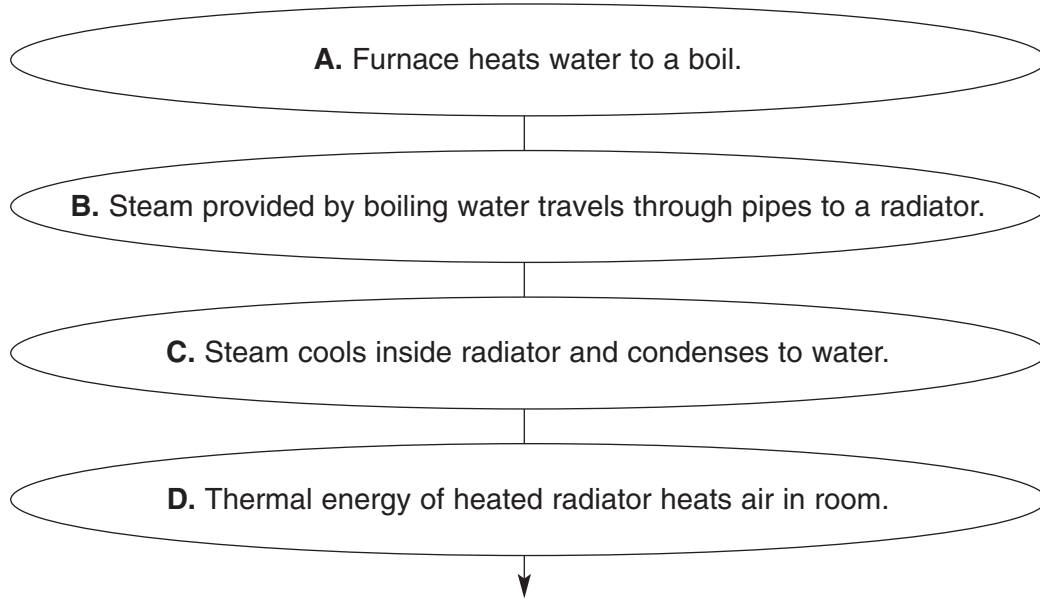


SECTION
3

Reinforcement

Using Heat

Directions: Answer the following questions about the heating system represented in the flowchart.



1. Is the system in the flowchart a hot-water system or a steam-heating system?

2. How does the furnace get the energy needed to heat the water?

3. Is the furnace an internal or external combustion engine? _____
4. How is the thermal energy produced by the furnace transferred to the water?

5. Why do the pipes carrying the steam to the radiator need to be insulated?

6. How is the thermal energy from the steam transferred to the radiator?

7. How is the thermal energy of the radiator transferred to the surrounding air?

8. What happens to the steam as it gives up thermal energy inside the radiator?

9. How is heat from the air surrounding the radiator transferred to the air in the rest of the room?
