

1. Lightweight truss roof construction is used in many commercial occupancies because:
  - A. It reduces weight
  - B. It reduces cost
  - C. It allows for manufacturing of support beams that would otherwise not exist in nature
  - D. All of the above
  
2. When an interior attack option is selected for a fire in a building with truss construction, the team entering the structure should first:
  - A. Move immediately to the seat of the fire since fire growth is exponential
  - B. Open the ceiling immediately inside the door to determine if fire is in the space overhead
  - C. Make a complete 360 circle of the structure to determine points of egress
  - D. Activate their emergency mode on the PASS device so as to be easier to track
  
3. A good tactic for protecting personnel who enter a structure which is on fire is to:
  - A. Not be concerned unless the building has a bowstring truss roof
  - B. Begin positive pressurization of the building before any vents have been opened
  - C. Operate as closely as practical to the walls so that a collapsing ceiling is less likely to trap
  - D. Thoroughly wet down the attack crew prior to entering the building
  
4. Fire spread through the truss spaces and ceiling voids is primarily by:
  - A. Embers transmitted through the space by high flow HVAC systems
  - B. Direct flame impingement only
  - C. Conduction
  - D. Direct flame impingement and convection
  
5. When discussing building construction features, a dead load refers to:
  - A. The weight of the building and any permanently affixed equipment
  - B. The weight added to the structure by the entrance of firefighters with fire attack hose lines
  - C. The weight of victims found during primary search
  - D. The weight of any impact to the structure such as a dead-blow hammer or axe
  
6. Decorations on the walls and ceiling of restaurants
  - A. Can fall during a fire and act to entangle firefighting personnel
  - B. Can substantially add to the fuel load
  - C. Can fall and strike firefighters during operations
  - D. All of the above

# Target Hazards: Restaurant Fires

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EXAMINATION

7. A thermal imaging camera can be useful in assessing the extent of a truss roof structure fire because:
- A. It can be used to see through the windows of the building even when there is smoke present
  - B. Predict when the truss roof will fail
  - C. The camera can be used to determine if there is substantial heating in the void spaces between the roof and the ceiling
  - D. The incident commander can view the operations in the interior from outside
8. Saponification is a significant effect in the extinguishment of fires involving oils. The effect is most profound in animal-based fats and oils and less in vegetable oils. This is due to the fact that:
- A. Alkaline-based extinguishing agents are seldom used
  - B. Saponification depends on the presence of fatty acids combining with an alkaline extinguishing agent and vegetable oils have fewer fatty acids
  - C. Animal fat has a higher auto-ignition
  - D. Vegetable oil has a lower oxygen content
9. Additional aids to the firefighter in size-up when addressing a structure fire in a commercial building include:
- A. Placing the building's construction type on a placard on the outside of the building
  - B. Having a public relations representative of the commercial building owner on the call list in dispatch
  - C. Having books on building construction located in the engine for reference
  - D. Using a broad fog pattern from an overhead master stream to disperse smoke so as to more easily assess the exterior of the building.
10. When considering evacuation due to an impending flashover, what additional considerations should be taken with respect to egress when the fire is in a fast food restaurant?
- A. Stay low, in a prone (flat) position, so as to reduce the profile of the firefighter
  - B. There are no particular special considerations
  - C. Deep fryer oil may be spilled on the floor, decreasing traction and exposing the firefighter's protective ensemble to saturation with combustible material
  - D. Stay near the center of the room since the fire will flash down the walls and this will place you furthest from the flame front