**IDT: Problem Solving**

Problem Solving: **In your own words**, answer the following questions. You may use your notes or online resources:

1. Identify and explain the steps to problem solving.

2. Why is it important to analyze a problem?

3. Explain the purpose of brainstorming solutions to a problem.

4. Explain the pros of working with a group when problem solving.

5. Explain why is it important to develop an action plan when implementing the solution to a problem?

6. What is a contingency plan Explain the purpose of a contingency plan?

7. Explain how problem solving can be helpful when working with technology. Provide examples.

**Problem Solving IT-IDT-7**

**1. Where does Everyone Live?**

Alex, Bret, Chris, Derek, Eddie, Fred, Greg, Harold, and Juan are nine students who live in a three story building, with three rooms on each floor. There is a room in the West Wing, one in the center, and one in the East Wing. If you look directly at the building, the left side is West and right side is East. Each student is assigned exactly one room. Can you find where each of their rooms is?

 1. Harold does not live on the bottom floor.

 2. Fred lives directly above Juan and directly next to Bret (who lives in the West wing).

 3. Eddie lives in the East wing and one floor higher than Fred.

 4. Derek lives directly above Fred.

 5. Greg lives directly above Chris.

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| **WEST** | **CENTER** | **EAST** |
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