Write an algebraic equation to represent each situation and then solve the equation. Check each solution.

1. Jake is working at the Happy Hollow Apple Orchard picking apples. He is paid $2 for each 5-pound container of apples that he picks. So far today, he has picked 7 containers of apples. His goal for the day is to pick 125 pounds of apples. How many more containers must he pick to reach his goal?

2. Denise has a summer job that pays her $6 per hour. It costs her $10 per week for round-trip transportation to her job. She wants to save half of what she has left (after transportation) with her goal being to save $55 each week. How many hours must she work each week to do this?

3. Theresa earns $10 per hour. If she works on Thanksgiving, she earns twice as much per hour. She earned $470 for the week including Thanksgiving. How many hours did Theresa work on Thanksgiving if she worked 35 hours during the rest of the week?

4. You can build three connected squares with 10 toothpicks. How many connected squares can you build with 103 toothpicks?

MakingSense