## Algebra and Representation HW \#4

## 1. Telephone Numbers

Step 1: Find a calculator.
Step 2: Enter the first three digits of your phone number (NOT the area code).
Step 3: Multiply by 80.
Step 4: Add 1.
Step 5: Multiply by 250.
Step 6: Add the number made up of the last 4 digits of your phone number.
Step 7: Repeat Step 6.
Step 8: Subtract 250.
Step 9: Divide the result by 2.
What do you notice? Explain why this happens.
2. Create your own "Pick a Number" problem so that

- the final number is always the (most common) age of the students you teach, and
- all four operations $(+,-, \times, \div)$ are used.

