

1.6 Practice: Arithmetic Sequences Day 1

Time (minutes)	Money

4. Peter has entered a donut eating contest. He starts with a pile of 200 donuts. Peter can eat 5 donuts per minute.

- Fill in the table and graph to model Peter's donut eating.
- Write a recursive routine to model Peter's donut eating.
- What operation did you repeat in your recursive routine?
- How many donuts will Peter have after 10 minutes? _____
- After how many minutes will Peter have 135 donuts left to eat? _____
- After how many minutes will Peter have EATEN 80 donuts? _____

- After 12 minutes, how many donuts will Peter still have on his plate? _____

Write a recursive routine for the following arithmetic sequences:

5. -4, -2, 0, 2, 4, ...

6. -6, -8, -10, -12, -14, ...

7. 192, 189.4, 186.8, 184.2, 181.6, ...

8. 84, 87.7, 91.4, 95.1, 98.8, ...