

**WEIGHT LOSS**

Two different visitors to the Fitness Center arrived seriously overweight in the same week. One arrived weighing 230 pounds and has managed to lose 4.5 pounds each week. The other arrived weighing 195 pounds and has managed to lose 3 pounds each week.

- What was each dieter’s weight after 10 weeks on the diet?
- After how many weeks did each of the dieters weigh 150 pounds?
- After how many weeks did the two dieters weigh the same?
- Explain why it is unlikely that real dieters result in losing a constant amount of weight each week.

[Source: Connecticut Mastery Test Third Generation Mathematics Handbook, Part 2 Draft, State of Connecticut]