

Each WA is worth 10 points total. Work right on these pages. You can work together, with a tutor, or with me, but NEVER copy. This WA is for a grade, so dishonesty or cutting corners may earn a 0 for all involved.

1. [3 pts] Solve this problem by creating a well-labeled table AND using Guess and Check. Justify how your FIRST guess needs to be improved for the 2nd guess, but no other explanation is required after that (even if you have many more guesses). **Show clear, organized work, and clearly indicate your final answer.**

Loretta spent \$2.40 buying a mixed bag of her favorite hard candies. Butterscotch Melts cost 5 cents each, Choco-Bits cost 8 cents each, and Peppermint Swirls cost 4 cents each. If she bought 39 pieces of candy altogether, how many Choco-Bits did she get?

2. [2 pts] Solve by any meaningful strategy, showing clear, well-organized, well-labeled work (fitting the standards we've discussed in notes). No explanation is necessary. Clearly indicate your final answer.

Augustus had a big jar of pennies. He gave $\frac{2}{9}$ of them to his little sister Julia and had 378 pennies left. How many did he give to Julia?

3. [5 pts - 1 each] For each SEPARATE part below, list the first 5 terms of a sequence with the required qualities.

(a) A Fibonacci-type sequence where $a_3 = a_5$ but $a_2 \neq a_3$

(b) An arithmetic sequence whose 2nd term is 30 and common difference is -4

(c) A geometric sequence whose 3rd term is 60 and common ratio is $1/4$

(d) A repeating sequence whose repetend consists of three different letters

(e) A sequence having $a_2 = 6$ and difference sequence $-1, \times 3, -1, \times 3, -1, \times 3, \dots$