

# Problem Solving: Try, Check, and Revise

Audrey bowled 3 games. Her mean score was 148. Each score was different. Name three possible scores. Remember that the highest possible score in bowling is 300.

Use the problem solving plan.

### Read and Understand:

What do you know?  
Audrey bowled 3 games.  
Her mean score was 148.

What are you trying to find?  
Three scores that have a mean of 148.

### Plan and Solve:

What strategy will you use?  
Try, check, and revise.  
Try 156, 140, 160. The mean is  
 $(156 + 140 + 160) \div 3 = 456 \div 3 = 152$ .

The mean is too high by 4 points:  
 $152 - 148 = 4$ .  
Try subtracting 4 points from each score.  
 $156 - 4 = 152$ ,  $140 - 4 = 136$ ,  
 $160 - 4 = 156$ .

### Check:

Check to see if the mean is 148.

$(152 + 136 + 156) \div 3 = 444 \div 3 = 148$

- The median time 5 people waited to ride on "The Whirl and Twirl" was 38 minutes. List 5 possible times they may have waited.  
\_\_\_\_\_
- Ben checked the price of the camera he wants at 4 stores. Each price was different. The mean price was \$238. What are 4 possible prices for the camera?  
\_\_\_\_\_
- Five hamsters weighed between 12 and 20 ounces. The mode weight of the 5 hamsters is 18 ounces. List the possible weights of the hamsters.  
\_\_\_\_\_
- The mean, median, and mode of a set of 4 numbers is 100. Name 4 numbers that could make up the set.  
\_\_\_\_\_
- The mean and median of a set of 6 numbers is 140. Name 6 numbers that could make up the set.  
\_\_\_\_\_