

ACMAT100 Spring 2023
Professor Manguba-Glover
Classwork 6

Name: _____

1. Solve the following word problems:

- (a) When twice a number is decreased by seven, the result is 33. What is the number?
- (b) One number exceeds another number by 1. The sum of the numbers is 57. What are the numbers?

2. Two trains leave Portland, Oregon, at the same time traveling in opposite directions. One train travels at 60 miles per hour and the other at 80 miles per hour. In how many hours will they be 910 miles apart?

3. The length of a new rectangular playing field is 9 yards longer than double the width. If the perimeter of the rectangular playing field is 360 yards, what are its dimensions?
4. City Cabs charges a \$2.75 pickup fee and \$1.50 per mile traveled. Diego's fare is \$17.75. How far did he travel in the cab?
5. The price of a cordless telephone has been reduced by 20%. If the sale price is \$28.80, determine the original price.