

Exam 2 Practice (Part II)

1. A \$150 dress is discounted 10%. How much money is required to buy the dress if the sales tax rate is 9.25%?
2. Given the solution to
$$11 - 3.5x \geq 16 - 4.75x$$
using set theoretic notation.
3. A train leaves Metropolis travelling north at 60 mph. An hour later, another train leaves Metropolis travelling the same route at 75mph. When will this train catch up with the first train?
4. Superman and Zod are flying towards each other for an epic battle. Superman flies 3000 miles per hour, while Zod flies 2500 miles per hour. If they are 4125 miles apart, how long will it take them to collide?
5. A student gets an A in her 5 unit class, a B in her 4 unit class, and a C in her 1 unit class. What is her GPA in these classes? (Assume an A gets 4 points, a B 3 points, and a C 2 points.)
6. Find the equation of the line through $(2, -1)$ and which is parallel to $x - 2y = 17.84$.
7. Convert 25 milliliters to liters.
8. Convert 0.45 liters to milliliters.
9. Freddy has a number of dimes and quarters totaling \$9.00 He has twice as many dimes as quarters. How many of each denomination does he have?
10. If Bubba scores 75% on his first exam, what must he score on the second exam to average at least 82%?
11. Marisela A. Plus scored 96% and 90% on her first two exams. What should Ms. Plus score on her third exam to maintain an average of at least 90%?
12. The salary of the CEO of a company is at least \$1000 more than twice the salary of an entry-level employee.
 - (a) If an entry-level employee earns \$30,000, what is the minimum salary of the CEO?
 - (b) If the CEO earns \$90000, what is the maximum salary of an entry-level employee?