Task #1:

A college charters a bus for $1700 to take a group to a museum. When six more students join the trip, the cost per student drops by $7.50. How many students were in the original group?

Task #2:

A baseball diamond has the shape of a square in which the distance from home plate to second base is about 127.5 feet. Approximate the distance between the bases.

Task #3:

You can rent a midsize car from Company A for $250 per week with unlimited mileage. A similar car can be rented from Company B for $150 per week plus 25 cents for each mile driven. How many miles must you drive in a week in order for the rental fee for Company B to be greater than that for Company A?

Task #4:

A projectile is fired straight upward from ground level with an initial velocity of 160 feet per second. When will the height exceed 384 feet?