

Assignment - Day 4 Translating Real World

Date _____ Period _____

Write an Equation for the given problem then solve. Make sure to use proper units.

- 1) Charles drove to his daughters's house to drop off her new iPhone X. He drove at 50 miles per hour there and back, and spent 10 minutes dropping off the iPhone. The entire journey took him 94 minutes. How far away does his daughters iPhone?

- 2) The cost of the day date at Extreme Air is \$200 plus \$4 per person. The cost for all the students on the day date came to \$324. How many people came?

- 3) Leslie is driving her Subaru to college and she wants to get there in 4 hours to meet his roommate. If the college is 210 miles from home and he stops to eat lunch for 30 minutes, how fast will he have to drive?

- 4) Luke's Window Washing Service charges \$40 per job and \$0.20 per square foot. If Luke earns \$150 for one job, how many square feet of windows did he wash?

- 5) Caleb is training for a 5k. he jogged 3 miles from his house to a lake. He sprinted twice around the lake and then jogged back to his house again. He ran a total of 12 miles. He jogged at a rate of 4 miles per hour and sprinted at a rate of 6 miles per hour.
 - a) How far is it around the lake?

 - b) How much time did he jog? How much time did he sprint?

 - c) How much time did he workout?

- 6) Jackson sells pizza by the slice. He is going to cut the pizzas into 6 slices and sell them individually. He wants to sell it for three times the cost of making the whole pizza. The ingredients cost \$8.50, and he's allowed \$1.25 to cover the cost of electricity to bake it.
- a) What is the amount Jackson will charge for each slice of pie?
 - b) What is the total amount he will gross for each pizza sold?
 - c) What will be the profit he makes on each pizza?

Solve each equation.

7) $-x + 8 + 3 = 3$

8) $3b + 7b = -10$

9) $7n + n = 7n + 5$

10) $x + 7 - 6x = 13 - 4x$

11) $-136 = 8(-3b - 2)$

12) $-35 + 7x = 7(x - 5)$