

Assignment: T2-29 Translating Real World

Date _____ Period _____

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

- 2) The cost of a birthday party at Extreme Air is \$200 plus \$4 per person. The cost for Fletcher's party came to \$324. How many people came to his party?

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

- 4) A cell phone company charges \$55 per month for unlimited minutes plus \$0.25 per text sent. If Tim's cell phone bill for last month came to \$100, how many texts did Tim send?

- 5) Bob's Painting Service charges \$10 per job and \$0.20 per square foot. If Bob earns \$50 for painting one job, how many square feet did he paint at the job?

- 6) Tammy is training for a marathon. She jogged 3 miles from her house to a lake. She sprinted twice around the lake and then jogged back home again. She ran a total of 12 miles. She 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 she jog? How much time did she sprint?

 - c) How much time did she workout?

- 7) Aly has baked an apple pie and wants to sell it in her bakery. She is going to cut it into 12 slices and sell them individually. She wants to sell it for three times the cost of making it. The ingredients cost \$8.50, and she allowed \$1.25 to cover the cost of electricity to bake it.
- What is the amount Aly will charge for each slice of pie?
 - What is the total amount she will gross if she sells the entire pie?
 - What will be the profit if she sells the entire pie?

Solve each equation. Show your work.

8) $x - 3x + 5 = -2(x - 3)$

9) $4(x + 1) = 2x + 2x + 4$

10) $-3x - 5 = 3x + 1$

11) $-5(x + 2) + 4 = 3x - 6$

Write each algebraic expression or equation in words.

12) $3x - 4 = 2$

13) $\frac{x}{2} + 5$

14) $-3x^5 + 2$

15) $\frac{2(x+5)}{3} = 10$