

1. Lisa is renting a moving truck; she agreed to pay \$125 to pick up the truck, \$28 per day, and \$0.42 per mile. She has a budget of \$500 dollars. Explain what each of the following represents in the context of the problem.

$$125 + 28x + 0.42y \leq 500$$

- a. 125: \_\_\_\_\_
- b. 28: \_\_\_\_\_
- c.  $28x$ : \_\_\_\_\_
- d. 0.42: \_\_\_\_\_
- e.  $0.42y$ : \_\_\_\_\_
- f. 500: \_\_\_\_\_
- g. Why did we use an inequality sign and not an equals sign?

2. Andrew receives \$3360 per week for working on a project. David receives \$0.0061 per second for working on the same project. Who gets a better salary?

3. Solve.  $\frac{4}{15} = \frac{6}{x+5}$

4. Simplify.  $(6 - 4) \times 49 \div 7^2 - 5 + 1$

5. Solve.  $-7 - 5x = 108$

6. Mrs. Weaver needs to purchase orange juice for smoothies that will be sold at Spartan Commons. She knows she needs to buy 9 liters of orange juice to make enough smoothies for the week, but the store only sells the juice in 250 mL cartons. How many cartons will she need to buy?

7. Mr. Belby bought a 5 pound bag of cherries at the market and ate 175g of them on the way home. How many grams of cherries does she have left when she got home?