

Name: \_\_\_\_\_

Date:

**AIM: How can we solve word problems using equations?**

**Do Now:** At the grocery store, you bought 4 boxes of cereal and \$2.89 worth of strawberries. The bill came to \$12.25. How much was each box of cereal? Write an equation and solve.

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### Word Problems

**For each question, (1) write a let statement, (2) write an equation, (3) solve the equation, (4) write a sentence to answer the question, (5) check your equation, (6) make sure your answer makes sense.**

1. Your math club is printing a booklet of math puzzles. The printer charges \$2.00 per booklet plus \$90.00 to create the film. How many booklets can you have printed for \$500?
2. Your club finds another printer who charges \$1.50 per booklet, plus \$140 for film. Which is the better printer to use? Explain.
3. A bowling alley charges \$0.75 to rent shoes and \$2.25 per game. How many games can you play if you have \$15.00?
4. Yellow Cab Taxi Company has a flat rate charge of \$5.00 for every pick up and \$0.75 for every mile. How many miles did a person go if their ride cost \$14.00?

5. The cost to mail a holiday package is \$3.00 with an additional charge of \$0.30 a pound. How many pounds is a package that cost \$9.00 to send?

6. You go out to dinner with 5 friends. When the bill comes you decide to split the bill evenly. The total cost of the bill, including a \$40 tip for the server, is \$245.18. How much did each person have to put in to pay the bill?

**Write an equation to model the word problem algebraically. You do not need to solve.**

7.) Val rented a bicycle while she was on vacation. She paid a flat rental fee of \$55.00, plus \$8.50 each day. The total cost was \$123. Write an equation you can use to find the number of days she rented the bicycle.

8.) A gym holds one 60-minute exercise class on Saturdays and several 45-minute classes during the week. Last week all of the classes lasted a total of 285 minutes. Write an equation you can use to find the number of weekday classes.

9.) There are 172 South American animals in the Springdale Zoo. That is 45 more than half the number of African animals in the zoo. Write an equation you could use to find  $n$ , the number of African animals in the zoo.

10.) Heather has \$500 in her savings account. She withdraws \$20 per week for gas. Write an equation Heather can use to see how many weeks it will take her to have a balance of \$220.