Algebra 1 ECA Remediation

Lesson 14 Solving Word Problems Involving Linear Equations

Linear models for things that add up to a total Ax + By = C

Linear models for things that has an initial value and something that repeats y = mx + b

Consider this situation for questions #1 & #2.

A teacher has \$31 to buy apples and bananas for her 5th grade class. The apples cost \$2.50 per pound and the bananas cost \$3.00 per pound.

- 1. Write an equation that can be used to represent the number of pounds of apples (*a*) and the number of pounds of bananas (*b*) that the teacher can buy for \$31?
- 2. If the teacher buys 4 pounds of apples, how many pounds of bananas can she buy?

Consider this situation for questions #3 & #4.

For a camping trip, the cost to rent a canoe is \$20 plus \$4.50 per hour.

- 3. Write an equation that can be used to represent the total cost (*c*) of renting a canoe for (*h*) hours?
- 4. How much would it cost to rent a canoe for 6 hours?