

Math 9 – Unit 4: Word Problems

Name: _____

Lesson #3: Solving Word Problems

Date: _____

Learning Goal: We are learning to solve various word problems.

To solve a word problem, carefully read the question, create the “LET” statements, create the equation, solve the equation, then finally ANSWER THE QUESTION!

a) The Mackenzie River is 1183 km longer than the St. Lawrence River. The sum of their lengths is 7299 km. How long is each river?

b) The sum of two numbers is 46. One number is 12 more than the other number. What are the numbers?

c) The length of a rectangle is 5m more than its width. If the perimeter is 90m, what are the dimensions?

d) The sum of 3 consecutive numbers is 105. Find the numbers.

e) The maximum life span of a brown bear is ten times the maximum life span of a mouse. The sum of their life spans is 33 years. What are the maximum life spans of each animal?

g) Together, Mary and Luke are 46 years old. If Luke is two years younger than 3 times Mary's age, how old are they?

f) A picture measures 40 cm by 30 cm. The outside perimeter of the frame around the picture is 156 cm. What is the width of the frame?

h) There are 23 animals in the field. Some are pigs and some are chickens. There are 76 legs in all. How many of each animal are in the field?

Success Criteria:

- I can identify the unknown variable in a given word problem
- I can create an equation that models a given word problem
- I can find the solution to the word problem by solving the equation
- I can express my solution in a complete sentence