Name \_\_\_\_

## Pre-algebra Word Problems Guided Lesson Explanation

1) We know the cost of a sandwich it is \$4. We also know the amount of money spent. We need to find the cost of a donut.

Step 1: Subtract the cost of sandwiches from the total.

Total = \$96 12 sandwiches were purchased at \$4 each = 12 (\$4) or \$48

**\$96 - \$48 = \$48** 

Step 2: Divide the total amount of the cost of donuts by the total number of donuts purchased.

cost of donuts = \$48 total number of donuts purchased = 8

 $48 \div 8 = 6$ 

The cost of a donut is \$6.

2) We know that Tris can type 5 documents in 20 minutes.

Step 1) Convert the given time to minutes.

1 hour and 40 minutes We know that 1 hour = 60 minutes.

60 minutes + 40 minutes = 100 minutes

Step 2) We just need to figure how many of those time increments (20 minutes) are in the given time (100 minutes)

100 minutes  $\div$  20 minutes = 5

We now know that Tris can complete this task 5 times.

Step 3) Find the total number of documents that she can type.

Tris can type 5 documents on each task. We know that in that time period she will complete the task 5 times.

5 documents x 5 tasks = 25 documents

She will type **<u>25 documents</u>** in 1 hour and 40 minutes.



Name \_\_\_\_\_

Date \_\_\_\_\_

3) We start by writing the problem as an equation. We will refer to Christina's original collection of paintings as x. Now we will look at what happen to x within the problem.

Step 1) Christina gave one-third of her collection of paintings to her brother. This means that Christina has twothirds of her collection or:

(x ● 2/3)

Step 2) Then she gave 10 paintings to her sister:

(x ● 2/3) - 10

Step 3) Now she is left with 8 painting

 $(x \bullet 2/3) - 10 = 8$ 

Step 4) Solve for x.

$(x \bullet 2/3) - 10 = 8$	
$(x \bullet 2/3) = 18$	(Add 10 to both sides.)
x = 18 (3/2)	(Multiply both sides by the reciprocal of 2/3)
x = 27	

