Multiplying and Dividing Fractions

Performance Task Objectives

- Multiply whole numbers and fractions

Sunshine State Standards

- MA.A.1.2.2
- MA.A.3.2.2
- MA.A.3.2.3

Materials

- Student recording sheet
- Counting chips (optional)
- Calculator (optional)
- Paper and pencil

Student arrangement

- Individual or small group

Task

Present the problem on the student Recording Sheet to your students.

Performance Criteria

- Does the student understand what “finding a fraction of a number” means?
- Can the student determine prices after each 10-day interval?
- Does the student use an appropriate strategy for determining all possible combinations of items to be purchased after 10 days?
- Can the student explain why the designated purchases could or could not be made?

Name _____

Solve this problem:

A warehouse sells clothing at a fraction of its original cost. The table below shows the fraction off the original price for clothing that remains in the warehouse after 10 days, 20 days, and 30 days.

WAREHOUSE PRICES				
Item	**Price**	**After 10 Days**	**After 20 Days**	**After 30 Days**
Jacket	$120	1/4 off	1/3 off	1/2 off
Shoes	$40	1/5 off	2/5 off	3/5 off
Shirt	$12	1/4 off	1/3 off	2/3 off

1. Find the price of the items after each 10-day period to complete the chart below. Show how you arrived at each answer.

WAREHOUSE PRICES				
Item	**Price**	**After 10 Days**	**After 20 Days**	**After 30 Days**
Jacket	$120	$90		
Shoes	$40			
Shirt	$12			$4.00

Suppose you have $100.00 to spend.

2. Within the range of $90.00 to $100.00, what are ***all*** possible combinations of items you could buy after 10 days?

3. Would you have enough money to buy 2 jackets after 20 days? **Why or why not?**

4. Could you buy all 3 items if you waited until after 30 days? Remember, you only have $100.00 to spend. **Why or why not?**