

## Solving Word Problems involving Multiplication of Whole Numbers including Money

### I. Learning Objectives

- Cognitive:** Solve word problems involving multiplication of whole number including money
- Psychomotor:** Write the solution to the problem correctly
- Affective:** Practice being thrifty

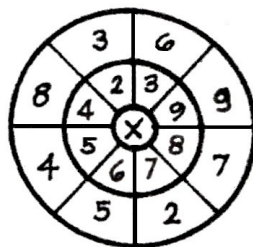
### II. Learning Content

- Skills:** Solving word problems involving multiplication of whole numbers including money  
Giving solution to the problems correctly
- References:** BEC PELC I D 2.1
- Materials:** textbook, flashcards, roulette, chart, activity cards, pictures of plants
- Value:** Thrift

### III. Learning Experiences

#### A. Preparatory Activities

1. **Drill:** Basic multiplication facts using this double roulette.



#### 2. Review

Transform this problem into number sentence.

Jobette helped his father in the garden. They planted 63 tomato seedlings in a row. How many tomato seedlings did they plant in 7 rows?

- Ask: Who helped father in the garden?  
What did they plant?  
How many tomato seedlings did they plant in a row?  
How many rows were planted with tomatoes?  
What are you going to look for in this problem?  
What are the given data?  
What is the number sentence?

### 3. Motivation

Present this story problem.

Cheena saves ₱ 15.00 a day. How much will she save in 5 days?

Ask: How much does Cheena save in a day?  
For how many days will Cheena save?  
Who among you are like Cheena?  
How much do you save in day?  
Is it good to save? Why?

### B. Developmental Activities

#### 1. Presentation

- a. Group the children into four. Using the problem, let each group illustrate the problem. Present this guide to the children in analyzing and illustrating the problem.

Problem:	
What is asked for?	
What are the given information?	
Draw/illustrate the problem.	
What is the process or operation to be used?	
What word/s help you determine the operation to use.	
Write the number sentence.	

Let the pupils publish their work and involve the class in checking to see whether what the group did is correct or not.

If you were to solve the problem, what process would you use?

Is there a word or words in the problem that tell what process or operation to use?

- b. Present problems that use different keywords or word clues to determine the operation to be used. Let them analyze.
1. A vendor buy 85 boxes of candies. Each box has 100 candies. How many candies are there in all?

2. Nena bought 12 sets of baby dresses. Each set costs ₱ 185. How much did she pay for all the dresses?
3. Mr. Santos is a postman. He has to deliver 178 letters in a day. How many letters will he deliver in 25 days.

Problem 1	Problem 2	Problem 3
How many candies; in all	How much; for all	How many

What operations will you use if you see these words?

- c. Assign the problems to three group. Let them solve the problem showing the correct solution and operation.

Ex.

What is asked? Total number of candies

What data/facts are given?

85 boxes of candies

100 candies in each box

What is the operation/process to be used? Multiplication

What is the number sentence?

$$85 \times 100 = n$$

Solve the number sentence?

$$85 \times 100 = 8\,500$$

What is the complete answer?

There are 8 500 candies in all.

## 2. Guided Practice

Using the strategy – multiplication concentration.

Materials: 12 cards with multiplication problems.

12 cards with their products

Procedure:

- Shuffle all 24 cards and place them face down in four rows of six cards each.
- Players take turns turning over two cards. If one shows a problem and the other card shows its product, the player keeps those cards. If the cards do not match, the player will read the problem in the cards and solve it showing the correct solution and operations.
  - The player with the most cards or who solve the most number of problems will be declared winner.

### 3. Generalization

What did you do to solve/get the correct answer?

What are the steps that we should follow in solving problems.

### C. Application

Read and understand each problem. Solve using Polya's method.

1. Mang Berto picked 25 small baskets of atis. If each basket contained 45 atis, how many atis were there in all?
2. If each basket of atis cost ₱ 120.00, how much will Mang Berto receive for 25 small basket of atis?
3. Mr. Lee sells mangoes by baskets. Each basket contains 26 mangoes. How many mangoes does 34 baskets have?
4. Alma saves ₱ 25.00 a in her piggy bank. How much money will she save in twelve days?
5. Pet could read 75 pages of his favorite pocket book in a day. If he would read for 12 days, how many pages would he finished?

## IV. Evaluation

A. Read and solve the following.

1. Grandma gave her 6 grandsons ₱ 100 each last Christmas. How much did she give away in all?
2. Mr. Cruz deposits ₱ 2 500 every month. How much will be his deposits in 8 months?
3. A tray contains 30 eggs. How many eggs will there be in 115 trays?
4. A one-way plane ticket to Cebu cost ₱ 1 540. If there were 100 passengers with one-way tickets, how much did all their cost?
5. A dictionary costs ₱ 1 345.00 pesos each. A teacher needs a dictionary for her class. How much will it costs her to buy the dictionary?

## V. Assignment

Read and solve.

1. A bus can accommodate 72 passengers. How many passengers can be accommodated in 15 buses?
2. Three vendors sold small flags at ₱ 3.00 at Luneta during the Independence Day celebration. There vendors were able to sell 320 flags. How much was the total sale of the three vendors?
3. The Grace III class of 45 pupils used bottle caps for their project. Each child used 25 pieces of bottle caps. How many bottle caps did the children use?
4. Simon spends ₱ 645 for his transportation per month. How much is his total transportation expenses for 9 months?
5. Nancy can type 32 words per minute. How many words can she type in 400 minutes?

