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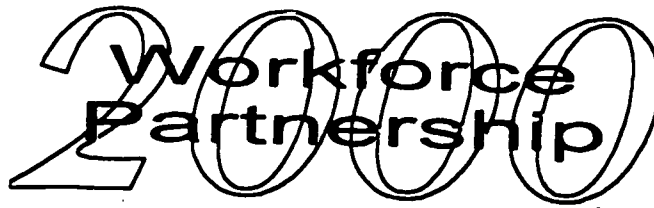
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ABSTRACT

This curriculum package on production percentage math is a product of the Workforce 2000 Partnership, which combined the resources of four educational partners and four industrial partners in Alabama, Georgia, and South Carolina to provide education and training in communication, computation, and critical thinking to employees in the apparel, carpet, and textile industries. After a brief overview of the Workforce 2000 Partnership, the curriculum package's contents are described. Presented next is a curriculum guide for a course in production percentage math for new employees. Included in the curriculum guide are the following elements: module title; author; job title; general instructional objective; overall time; and specific instructional objectives, list of required resources and materials, and suggested learning activities and evaluation activities. Next, a lesson plan is provided that contains detailed instructions for conducting the guided practice, applied practice, and closure activities. The activities provided are designed to help learners develop multiplication and division skills required to solve work-related problems of ratio and proportion. Concluding the document are handouts, transparencies, tests and a sample individual education plan. (MN)

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## Patterns for Success: Production Percentage Math (P1)

### EDUCATION PARTNERS

Enterprise State Junior College

MacArthur State Technical  
College

Southeast Alabama Adult  
Network

Laurens County Literacy Council

### INDUSTRY PARTNERS

CMI Industries, Inc.

Opp & Micolos Mills

Pridecraft Enterprises

Shaw Industries

The Workforce 2000 Partnership combines the resources of educational and industrial partners to provide education and training in communication, computation and critical thinking skill to employees in the apparel, carpet and textile industries. The project is funded by a US Department of Education National Workplace Literacy Program grant awarded over three years to Enterprise State Junior College in the amount of \$2,243,470 (70%) with committed private sector matching funds of \$961,487 (30%), bringing the total program resources to \$3,204,957. The activities of the Partnership do not necessarily represent the policy of the Department of Education, and you should not assume endorsement by the Federal Government. Participation by the education or industrial partners in the project should also not be construed as endorsement by the Government of any partners' products.

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# INTRODUCTION

The Workforce 2000 Partnership is a network of industries and educational institutions that provides training in communication, computation, and creative thinking to employees in the textile, apparel, and carpet industries. The Partnership serves line employees and first-line supervisors at 15 plants in Alabama, Georgia, and South Carolina. The curricula for these topics are developed by the educational partners, which include a junior college, a technical college, and two adult education/literacy programs.

The Partnership uses functional context curricula to teach the topics listed above. This introduction will describe how the curriculum is developed, the contents of this curriculum package, and how to involve learners in the educational process.

## CURRICULUM DEVELOPMENT

Before writing curriculum, instructors must know what employees need to learn. An instructional need is defined as the difference between what workers know and what the job requires. Project staff employ a variety of methods to analyze the duties and tasks of the jobs, as well as what kinds of communication, computation, and creative thinking skills are required. The analyses include interviewing exemplary workers; observing these workers on the job; interviewing groups of workers who perform the same or very similar jobs; reviewing documents such as job descriptions, handbooks, signs, memoranda, etc; interviewing supervisors and managers; and structuring surveys to be completed by workers, supervisors, and managers. During the analyses, the curriculum developer will also look for skills that the worker must perform to be considered for promotions.

Needs assessment is a vital part of the curriculum development process because the educator must fully understand what a worker does in order to determine what the worker must learn. As the needs assessment process continues, the educator also collects numerous documents to use as materials for instruction. The use of work-specific materials for instruction is what sets workplace education apart from other types of adult education. These materials allow skills to be learned in the classroom and more readily transferred to the plant floor. Therefore, reading skills improvement takes place as the worker is reading and comprehending the employee handbook; math skills improvement happens while the worker is computing percentages for production; and thinking skills improve as the worker is learning to work as a team member.

## CONTENTS OF THIS CURRICULUM PACKAGE

### The Curriculum Guide

The curriculum guide provides a quick view of all the major components of the curriculum. The job title for which the curriculum was originally developed and field tested is given in the upper left hand corner under the name of the curriculum module. Next is the General

Instructional Objective that defines the major purpose of the curriculum. The Overall Time is listed to estimate the amount of time that should be devoted to the entire module.

The chart is used by reading across the columns to match the Specific Instructional Objective with the estimated amount of time required, the Learning Activities, Resources required for the activities, and the Evaluation method used to assess achievement of the specific objective. The instructor should carefully review the column on Resources / Materials to ensure that necessary items are readily available. Copyrighted materials may be referenced in the Resources section of the Curriculum Guide; however, no copyrighted material has been duplicated and placed in this module.

### Sequencing Learning Activities

Project staff use a model of instructional sequencing adapted from *Literacy at Work* by Jori Phillipi<sup>1</sup>. In this model, the instructional sequence begins with an activity designed to invite the learners into the learning process. This activity will allow the learners to bring to mind past learning and experiences in a way that will facilitate the learning of new information. The activity may come from the workplace or from other real-life situations.

Once the new information has been presented, learners participate in activities designed to practice skills clustered in increasingly larger chunks. These skills are then applied to situations from the workplace to maximize the transfer of the skills learned. A closure activity provides for review and assessment of the skills learned and may also identify needs for further learning.

### Lesson Plan

The Lesson Plan contains the detailed explanation of the activities referenced on the Curriculum Guide. Note that the numbering system for the activities is the same on the Curriculum Guide and in the Lesson Plan. In reviewing the Lesson Plan, the instructor should look for places where more appropriate work-specific items can be substituted. This substitution customizes the curriculum for the specific work site and makes the learning activities more meaningful for the learners involved.

### Handouts, Transparencies and Tests

The Lesson Plan may require that handouts and/or transparencies be used in teaching the module. If so, these items are located behind the Lesson Plan in the curriculum package and are designated as Handouts or Transparencies in the header at the top of the page. If a pre- and post-test (called Preview and Review) are a part of the module, these will also be found in the Handouts section.

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<sup>1</sup> Phillipi, Jori. *Literacy at Work: The Workbook for Program Directors*. New York: Simon & Schuster Workplace Resources, 1991.

## INCLUDING LEARNING IN THE EDUCATION PROCESS

It is essential to provide opportunities for the adult learners to recognize their place in the educational process. The first step in the process is the assessment of the learner's skills and needs, performed jointly by the learner and the instructor. This assessment, becomes a part of the learner's Individual Education Plan (IEP). The IEP forms used by the Partnership are contained in this module. The IEP provides for collection of demographic data, evaluation of learner's skills and needs, and an outline of the activities in this module.

Every activity contains opportunities for evaluation, and, as much as possible, the learners perform the evaluation themselves. As curriculum is written, a page is developed for the learners to use to follow the sequence of activities and to document their performance. This page, called the Learner's Page, becomes a part of the IEP.

Frequently, pre- and post-tests (referred to as Previews and Reviews) are administered as a part of the evaluation process. Learners participate in scoring these tests and write their scores on their pages. To vary the assessment methods, the learners may be asked to rate themselves on their ability to perform certain skills, to write a phrase or statement that expresses their belief about their learning, or to specify what skills need more practice.

The purpose for including the learners in the evaluation process is to help them understand that assessment is reflective, constructive, and self-regulated. The learners, having participated in an ongoing needs assessment process, understand why they are participating in the learning activities. Therefore, including them in the evaluation of the learning gives them opportunities for relearning, synthesizing, and applying the skills.

Written self-evaluative comments on the Learner's Page also provide opportunities for communication between the learner and the instructor. This type of assessment is teacher-mediated (*i.e.* usually done when instructed by the teacher), ongoing, and cumulative. The Learner's Page is filed in his or her folder which is regularly reviewed by the instructor. During the reviews, the instructor may write comments in response to those made by the learner.

The goal of this curriculum is to enable learners to transfer classroom academic learning to the plant floor, thereby improving both productivity and efficiency. This curriculum will be most effective if the instructor customizes the curriculum to the specific worksite.

For more information  
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**General Instructional Objective:** Understanding occupational specific mathematics

**Overall Time:** 95 minutes

<b>Specific Instructional Objective</b>	<b>Time</b>	<b>Learning Activities</b>	<b>Resources/Materials</b>	<b>Evaluation (Process/Status)</b>
(Motivation)	5 min.	1.1 Motivational Activity Example Multiplication and division problems	Calculator	Students can correctly complete problems.
Review principles of multiplication and division.	30 min.	2.1 Instructional Activity <ul style="list-style-type: none"> <li>• Teach students basic vocabulary of multiplication</li> <li>• Teach students how to compute multiplication problems on the calculator.</li> <li>• Teach students basic vocabulary of division.</li> <li>• Teach students how to compute division problems on the calculator.</li> </ul>	“Multiplication on Calculator” - handout “Division on Calculator” - handout	Students can define vocabulary. Students can correctly work multiplication problems on calculator. Students can correctly work division problems on the calculator.
III.B.100 Interpret ratio and proportion, e.g. preparing mixtures, figuring pay rate.	5 min.	3.1 Motivational Activity Ask students to name everyday examples of the use of rates	Marker board/Markers	Instructor critiques students' responses.
	5 min.	3.2 Instructional Activity Teach students vocabulary.		Students can define vocabulary. Instructor critiques students' examples.

Specific Instructional Objective	Time	Learning Activities	Resources/Materials	Evaluation (Process/Status)
	5 min.	<p>3.3 Instructional Activity</p> <p>Review the definition for "ratio".</p>		Students can define vocabulary. Instructor critiques students' examples.
	15 min.	<p>3.4 Instructional Activity</p> <ul style="list-style-type: none"> <li>• Review the definition for "rate".</li> <li>• Teach students how to write a rate.</li> <li>• Work examples on the board.</li> </ul>	"Reading and Writing Rates" - handout	Students are able to correctly work examples.
	15 min.	<p>3.5 Guided Practice</p> <ul style="list-style-type: none"> <li>• Write the production percentage equation on the board.</li> <li>• Explain to students the rates and ratios contained in the equation.</li> <li>• Explain to students how to calculate daily rate of pay and hourly rate of pay.</li> <li>• Work through examples on the board.</li> </ul>	"Production Percentage Rate and Ratios" - handout	Students are able to correctly work examples.
(Closure)	15 min.	<p>4.1 Applied Practice and Closure Activity</p> <ul style="list-style-type: none"> <li>• Give students copies of gum sheets and "Production Percentage Rates and Ratios Worksheet".</li> <li>• Have students complete worksheet.</li> <li>• Review upon completion.</li> </ul>	"Production Percentage Rates and Ratios Worksheet" - handout	Students can correctly complete all problems on the worksheet.



## Lesson Plan

**1.1 Motivational Activity - 5 minutes**

This module covers rate, ratio and proportion. A review of multiplication and division utilizing the calculator is included. As an introduction, the instructor does a motivational activity dealing with multiplication and division word problems which involve workplace situations. Students use the calculator to solve these problems, and the instructor works through the problems with them.

**Examples:**

1. Laurie, a sewing machine operator, worked at 110% production on Thursday. This rate earned her \$5.76 per hour. How much would she earn if she worked nine hours on Thursday?

**Explanation:** The "X" key is called the multiplication key and is used to multiply one number times another number. Instruct the students to work the problem on the calculator using the following method:

Enter: 5.76  
 Hit: X                    The correct answer is \$51.84.  
 Enter: 9  
 Hit: =

**Explanation:** The "+" key is called the division key and is used to divide one number by another. Instruct the students to work the problem on the calculator using the following method:

2. The shipping department sent out 22 boxes on Monday, 26 boxes on Tuesday, 18 on Wednesday, 24 on Thursday and 10 on Friday. What was the average number of boxes shipped out each day that week? (Explain to the students that this is a two step problem. They must first add the total for each day and then divide by the number of days in the week--five.

Enter: 22  
 Hit: +  
 Enter: 26  
 Hit: +  
 Enter: 18  
 Hit: +  
 Enter: 24  
 Hit: +  
 Enter: 10  
 Hit: =

This will total 100. Then instruct the students to divide this total by 5. The correct answer is an average of 20 boxes shipped per day.

Enter: ÷  
 Hit: 5  
 Enter: =

**2.1 Instructional Activity - 5 minutes**

- A. Instructor explains the learning objective to the students: "We are going to review multiplication and division skills and practice them in ways that you may utilize these skills to calculate your production percentage."
- B. Introduce the vocabulary of basic multiplication writing the following problem on the board:

$$\begin{array}{r}
 413 \text{ multiplicand} \\
 \times 12 \text{ multiplier} \\
 \hline
 826 \\
 413 \\
 \hline
 4956 \text{ product}
 \end{array}$$

- C. Compute multiplication problems with the students, explain to them how to work problems on the calculator. Use "Multiplication on Calculator" handout for examples and explanation.
- D. Introduce the vocabulary of basic division writing the following problem on the board:

$$\begin{array}{r}
 40 \\
 4 \overline{)160} \\
 \underline{-16} \\
 0
 \end{array}
 \quad 160 \text{ (dividend)} \div 4 \text{ (divisor)} = 40 \text{ (quotient)}$$

- E. Compute division problems with the student, explain to them how to work problems on the calculator. Use "Division on Calculator" handout for examples and explanation.
- F. Randomly ask students to define multiplicand, multiplier, product, dividend, divisor, and quotient.

**3.1 Motivational Activity - 5 minutes**

Instructor guides discussion on everyday examples of rates. Utilizing the following examples ask students to generate sample rates:

- Hourly rate of pay
- Rate of the cost of a gallon of gas
- Rate of speed on highway

Write responses on the board. Explain if responses are appropriate or inappropriate.

**3.2 Instructional Activity - 5 minutes**

- A. Define ratio as a relation comparing one quantity to another by division—comparing measurements which may or may not be of the same kind. An example would be miles per hour—unlike—and chewing 4 out of 5 sticks of gum—as like.
- B. Define proportion as a statement that two ratios are equal. An example would be a recipe that calls for proportionate—equal—amounts of water and milk.

- C. Define rate as a ratio that compares quantities in different units--rates cannot be of the same kind. An example would be: 10 hours to 2 hours is a ratio, but not a rate; however, 10 miles to 2 hours is both a ratio and a rate.
- D. Randomly ask students to define ratio and to give examples. Instructor critiques students' responses.

(This module does not contain in-depth calculations on ratios, rates and proportions because most rates and ratios, aside from pay rates, are calculated by the engineering department and knowledge of the calculations is not needed by a floor employee. )

### 3.3 Instructional Activity - 5 minutes

- A. Review the definition for ratio and teach students how to write a ratio using the following example. Explain to students that since a ratio is a fraction, then sometimes a ratio may need to be reduced like a fraction.

A ratio is a relation comparing one quantity to another by division. For example, if a sewing machine operator completes repairs on 8 out of 12 garments, then the ratio of corrected garments to total garments is expressed in any of the following ways:

8:12

8 to 12

8/12

All of these examples would be read: "Eight to twelve". Since a ratio is a fraction, look to see if the fraction can be reduced. In the example above, 8/12 can be reduced to 2/3, so  $8/12 = 2/3$ ,  $8:12 = 2:3$ , and  $8 \text{ to } 12 = 2 \text{ to } 3$ .

Another example: an inspector checks 6 out of 48 pieces for errors.

This would be: 6:48    6 to 48    6/48

Reduced:            1:8    1 to 8    1/8

- B. Randomly ask students to define ratio and to give examples. Instructor critiques students' responses.

### 3.4 Instructional Activity - 15 minutes

- A. Review the definition for rate and teach students how to write a rate. Distribute handout "Reading and Writing Rates". Explain to students that a rate is a ratio, because the rate still compares two units. Also a ratio is not a rate, because rates compare unlike units, while ratios only compare identical units.
- B. Work through the sample problems with students using handout "Reading and Writing Rates".

### 3.5 Guided Practice - 15 minutes

- A. Show students the production percentage equation using the "Production Percentage Rates and Ratios". Explain to students the ratios and rates contained in the equation and how to calculate hourly rate of pay and daily rate of pay. Be certain students understand that an operator's skilled rate does not change. This is often confusing to students and they often try to calculate skilled

rates, which are actually calculated by engineering--be sure they understand the skilled rate is a given number.

B. Work through the examples on the board.

**4.1 Applied Practice and Closure Activity - 15 minutes**

Give students copies of gum sheets and "Production Percentage Rates and Ratios Worksheet". Have students complete worksheet. Review and score worksheet. Instructor should spend additional time with those students who do not score 100%.

## Multiplication on Calculator

### Calculator Usage:

The "X" key is called **multiply key** and is used to multiply two numbers. Press the keys as shown to solve the sample problems below:

1. Enter: 452                      The answer to  $452 \times 236$  is 106,672  
Hit: X  
Enter: 236  
Hit: =

2. Enter: 567                      The answer to  $567 \times 123$  is 69,741  
Hit: X  
Enter: 123  
Hit: =

Work the following problems on your calculator:

1.  $120 \times 34 =$       2.  $316 \times 239 =$       3.  $605 \times 1004 =$

## Multiplication on Calculator Key

### Calculator Usage:

The "X" key is called **multiply key** and is used to multiply two numbers. Press the keys as shown to solve the sample problems below:

1. Enter: 452                      The answer to 452 X 236 is 106,672  
Hit: X  
Enter: 236  
Hit: =

2. Enter: 567                      The answer to 567 X 123 is 69,741  
Hit: X  
Enter: 123  
Hit: =

Work the following problems on your calculator:

1.  $120 \times 34 = 4,080$       2.  $316 \times 239 = 75,524$       3.  $605 \times 1004 = 607,420$

## Division on Calculator

### Calculator Usage:

The “÷” key is called the **divide key** and is used to divide one number by another. Press the keys as shown to solve the same problems below:

1. Enter: 833      The answer to 833 ÷ by 49 is 17  
Hit: ÷  
Enter: 49  
Hit: =

2. Enter: 126      The answer to 126 ÷ by 3 is 42  
Hit: ÷  
Enter: 3  
Hit: =

Work the following problems on your calculator:

1.  $255 \div 5 =$       2.  $132 \div 11 =$       3.  $855 \div 19 =$       4.  $1815 \div 33 =$

## Division on Calculator Key

### Calculator Usage:

The “÷” key is called the **divide key** and is used to divide one number by another. Press the keys as shown to solve the same problems below:

1. **Enter:** 833      **The answer to 833 ÷ by 49 is 17**  
**Hit:** ÷  
**Enter:** 49  
**Hit:** =

2. **Enter:** 126      **The answer to 126 ÷ by 3 is 42**  
**Hit:** ÷  
**Enter:** 3  
**Hit:** =

**Work the following problems on your calculator:**

1.  $255 \div 5 = 51$     2.  $132 \div 11 = 12$     3.  $855 \div 19 = 45$     4.  $1815 \div 33 = 55$



## Reading and Writing Rates

A rate is a ratio that is used to compare quantities of different kinds. Rates are usually written in a per unit form. So, a rate is a ratio, but a ratio is not a rate because a ratio only compares like objects, whereas a rate compares different objects.

For example, the speed on an interstate is 65 miles per hour. This is a rate, a rate of speed per hour. The rate can be expressed 65 miles/1 hour, 65 miles:1 hour, or 65 miles per hour.

### Sample Problems:

1. On Monday Joanne worked 9 hours and made \$54.00. What was her hourly rate of pay?

$$\$54.00 \div 9 = \$6.00 \quad \text{So, Joanne's hourly rate is \$6 per hour.}$$

2. A sewing machine operator worked a 9 hour day, or 540 minutes. From the tickets on her gum sheet, she calculated her ticket minutes to be 580. If you wish to express ticket minutes to minutes worked, would this be a rate or a ratio?

*Ticket minutes to minutes worked is a ratio, because it compares identical units, in this case, minutes. The ratio may be expressed 580 to 540, 580/540 or 580:540.*

3. In one week, Monday through Friday, Lori worked at a rate of 8 hours per day. Her total weekly paycheck was \$250.00. What was her daily pay rate?

*Divide the number of days she worked, 5, into the total amount of her paycheck:*

$$\$250.00 \div 5 = \$50.00 \quad \text{So, Lori earned \$50.00 per day.}$$

## Production Percentage Rates and Ratios

Look at the following equation:

$$\frac{\text{Ticket} \div \text{Minutes}}{\text{Minutes Worked}} = \frac{\text{Production}}{\text{Percentage}} \times \frac{\text{Skill or Base}}{\text{Level Rate}} = \$ \text{ per hour} \times \frac{\text{Hours}}{\text{Worked}} = \text{Total } \$ \text{ per Day}$$

(In decimal form)

Sewing machine operators use this equation to determine their production percentage and how much they earned in a given day.

The above equation has many examples of ratios and rates:

- Ticket Minutes  $\div$  Tickets Worked expresses a ratio. For example, if an operator's ticket minutes add up to 580, and she worked a nine hour day, you would simply multiply 9 (hours worked) times 60 (minutes per hour), which would be 540 and then the ratio may be expressed:

$$580:540 \qquad 580 \text{ to } 540 \qquad 580/540$$

- The skill level expresses an operator's set hourly skilled rate of pay. For example, an operator's skilled pay rate may be \$5.60. So, her rate can be expressed:

$$\$5.60 \text{ per hour} \qquad \$5.60:1 \text{ Hour} \qquad 5.60 \text{ to } 1 \text{ Hour} \qquad \$5.60/1$$

The skill level rate of pay is set by the engineering department and does not fluctuate.

- The dollars per hour is an operator's actual rate of pay, based on her production.
- The Total Dollars for the Day is simply another way to express the operator's actual rate of pay.

### Examples:

1. If an operator's ticket add up to 580 minutes, and she worked a 9 hour day, what was her production percentage, and how much money did she make that day? (Skilled rate = \$5.60 per hour) Minutes worked = 9 (hours) x 60 (minutes per hour)

$$580 \div 540 = 1.07 \times \$5.60 = \$5.99 \times 9 = \$53.91$$

-- In the above equation, the operator's production percentage is first expressed in a decimal, in this case 1.07. So, convert the decimal to a percent by moving the decimal two places to the right, and her production percentage is 107%. Her daily rate of pay is \$53.91.

-- What is the operator's fixed skilled rate of pay per hour? \$5.60

-- As long as the operator remains on her current job assignment, will her skilled rate ever change?

No. The only exception would be if the skilled rate was changed by engineering.

2. If an operator's tickets add up to 510 minutes, and she worked a 9 hour day, what was her production percentage, and how much money did she make that day? (Skilled rate = \$5.60 per hour)

$$510 \div 540 = .94 \times \$5.60 = \$5.26 \times 9 = \$47.34$$

-- So, the operator's production percentage is 94% and her daily rate of pay is \$47.34.

-- According to the operator's skilled rate, she is supposed to make \$5.60 per hour. So, why did she only make \$5.26 per hour? Because to make her skilled rate, she must be at 100% production. Since her production dropped, so did her pay.

3. An operator in training adds up her ticket minutes to 380, and she has worked a 9 hour day. What was her production percentage, and how much money did she make that day? (She is on a base rate of \$5.41 per hour)

$$380 \div 540 = .70 \times \$5.41 = \$3.787 \times 9 = \$34.08$$

-- So, her production percentage is 70%. But, her hourly pay rate (based on production) is \$3.787 per hour, which calculates to only \$34.08 for the entire day.

However, the operator is guaranteed a minimum of \$5.00 per hour. So, since the operator worked a 9 hour day, her daily pay rate would be  $\$5.00 \times 9 = \$45.00$ .

## Production Percentage Rates and Ratios Worksheet

$$\frac{\text{Ticket}}{\text{Minutes Worked}} = \frac{\text{Production Percentage}}{\text{Skill Level}} \text{ or } \frac{\text{Base}}{\text{Rate}} = \frac{\text{\$ per hour}}{\text{Hours Worked}} = \frac{\text{Total \$ per Day}}{\text{Hours Worked}}$$

(In decimal form)

✦ Always round production percentage down.

✦ To calculate dollars per hour, leave production percentage in decimal form.

✦ Guaranteed Minimum = \$5.00

- Look at the Gum Sheets for Willie Bell Bigham. Given that she worked a 9 hour day and that her skilled rate is \$5.80 per hour, answer the following questions:
  - What is the ratio of her ticket minutes to her minutes worked?
  - What is her hourly rate of pay?
  - What is her daily rate of pay?
- Look at the Gum Sheet for Lena Smith. Given that she worked a 9 hour day, and her base rate of \$5.41 per hour, answer the following questions:
  - What is the ratio of her ticket minutes to her minutes worked?
  - What is Lena's production percentage?
  - What is her calculated hourly rate of pay?
  - Will Lena actually be paid her calculated rate of pay?
- Look at the Gum Sheets for Diane Smith. Given that Diane worked a 9 hour day and that her skilled rate is \$5.60 per hour, answer the following questions:
  - What is her production percentage?
  - What is her hourly rate of pay?
  - What is her daily rate of pay?
  - How is the pay for Diane's minutes off standard computed?

4. Look at the Gum Sheets for Tina Downing. Given that Tina worked a 9 hour day and that her skilled rate is \$5.60 per hour, answer the following questions:
- What is the ratio of her ticket minutes to her minutes worked?
  - What is her production percentage?
  - What is her hourly rate of pay?
  - What is her daily rate of pay?

## Production Percentage Rates and Ratio Answer Key

1. Ratio: **530.907 to 540, 530.907:540, or 530.907/540**

Hourly rate of pay: **\$5.70 per hour**

Daily rate of pay: **\$51.30 per day**

2. Ratio: **295.593 to 540, 295.593:540, or 295.593/540**

Production Percentage: **54%**

Calculated Hourly rate of pay: **\$2.9214 per hour**

Lena will not get paid **\$2.9214 per hour**, because Pridecraft guarantees **\$5.00 per hour**. So, her pay rate will not decrease below **\$5.00 per hour**.

3. Production Percentage: **71%**

Hourly rate of pay: **3.976**

Daily rate of pay: **\$45.00; Pridecraft guarantees \$5.00 per hour**

**Minutes off standard are computed using the average of the previous 4 weeks**

4. Ratio: **554.476 to 540, 554.476:540, or 554.476/540**

Production Percentage: **102%**

Hourly rate of pay: **5.712**

Daily rate of pay: **\$51.41**

DEPT #: 123

NAME: William Lee Smith

DATE: 7/11/96

CLOCK #: 758024931

REMEMBER TO CLOCK WHEN LEAVING THE PLANT.

HOURS WORKED

CODE:

COMMENTS:

SERGE LEFT FRONT 665C2067 CBB 41112 WM WARMUP JKT NK SIS COBALT SM COBALT BLUE 5.974 06-1303 S 24 0061548623	SERGE FRONT FACINGS 665C2363 CBB 37564 JEWEL NECK TUNIC SIS FRT OPNS COBALT COBALT BLUE 10.752 06-1424 2XL 24 0061545193	SERGE LEFT FRONT 665C2065 CBB 41112 WM UP JKT LADIES JEWEL NK SIS CBB LG COBALT BLUE 11.947 05-6830 L 48 0061544884	SERGE LEFT FRONT 665C2063 CBB 41113 WM UP JKT LADIES SIS JEWEL NK 2XL CBB COBALT BLUE 13.142 05-6833 2XL 48 0061545360	HEM BTM 1/2" 665C2067 CBB 41203 WMNS WARMUP JKT JWL NK SIS COBALT SM COBALT BLUE 16.073 06-1303 S 24 0131548623	HEM BTM V/OF/PKTS GRP I 6102315 WTE 32326 UNIPEL LAB COAT WTE LARGE WHITE 18.590 06-1267 L 24 0111542379	HEM BTM 1/2" 665C2065 CBB 41112 WM UP JKT LADIES JEWEL NK SIS CBB LG COBALT BLUE 11.947 05-6830 L 48 0061544884	HEM BTM 1/2" 665C2063 CBB 41113 WM UP JKT LADIES SIS JEWEL NK 2XL CBB COBALT BLUE 13.142 05-6833 2XL 48 0061545360	HEM BTM 1/2" 665C2067 CBB 41203 WMNS WARMUP JKT JWL NK SIS COBALT SM COBALT BLUE 16.073 06-1303 S 24 0131548623	HEM BTM V/OF/PKTS GRP I 6102315 WTE 32326 UNIPEL LAB COAT WTE LARGE WHITE 18.590 06-1267 L 24 0111542379	HEM BTM 1/2" 665C2065 CBB 41203 WM UP JKT LADIES JEWEL NK SIS CBB LG COBALT BLUE 32.146 05-6830 L 48 0131544885	HEM BTM 1/2" 665C2063 CBB 41203 WM UP JKT LADIES JEWEL NK SIS CBB LG COBALT BLUE 32.146 05-6830 L 48 0131544885
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START	STOP	START	STOP	START	STOP	START	STOP	START	STOP
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Start	Stop	TA	TM	OA	OM
Start	Stop	TA	TM	OA	OM
Start	Stop	TA	TM	OA	OM
Start	Stop	TA	TM	OA	OM



DEPT #: 123

NAME: William Lee Smith

DATE: 7/11/96

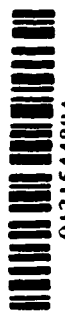

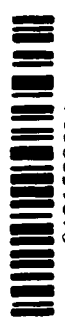
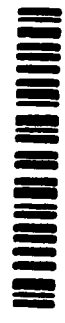
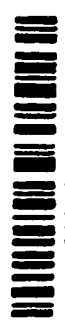


CLOCK #: 758024931

REMEMBER TO CLOCK WHEN LEAVING THE PLANT.

HOURS WORKED

CODE:

COMMENTS:

ILEM BTM 1/2" 665C2065 CBB 41203 W/UP JKT LADIES JEWEL NK SIS CBB LG COBALT BLUE 32.146  0131544884 05-6830 L 48	ILEM BTM V/OFF/PKTS GRP I 66582045 RAS 1605 NURSES TUNIK ULT V NK 1G SELF BIND RASBERRY 49.934  0111548372 06-0579 L 48
ILEM BTM 1/2" 665A2065 BLU 41203 LADIES WARM UP SIS JEWEL NK BLU LG BLUE 32.146  0121538534 06-6399 L 48	SERGE LEFT FRONT 665C2067 CBB 41112 60 NS WARMUP JKT NK SIS COBALT SM COBALT BLUE 10.000  0061548623 06-1303 S 24
ILEM BTM V/OFF/PKTS GRP I 66542366 CBL 1605 TUNIK FWL NK W/SMS SIS PATCH PKT CBL CEIL BLUE 49.934  0121549725 06-4954 M 48	
ILEM BTM V/OFF/PKTS GRP I 66542366 CBL 1605 TUNIK FWL NK W/SMS SIS PATCH PKT CBL CEIL BLUE 49.934  0121549724 06-4954 M 48	
ILEM BTM V/OFF/PKTS GRP I 66582045 RAS 1605 NURSES TUNIK ULT V NK 1G SELF BIND RASBERRY 49.934  0111548370 06-0579 L 48	BEST COPY AVAILABLE



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Stop					
Start	TA	TM	OA	OM	
Stop					
Start	TA	TM	OA	OM	28
Stop					



ATTACH COUPONS TO BLACKS

@JOIN PADS W/LB GRP 3 59752111 QU 36 87802 QU UNDERPAD BIRDEYE W/ROZ VINTEX 3MX QUILTED 12.674 0011555428 06-4832 30 12	@JOIN PADS W/LB GRP 4 59752100 QU 36 87803 QU UNDERPAD BIRDEYE W/TE 3MX QUILTED 25.685 0011556714 07-6913 34 24
@JOIN PADS W/LB GRP 3 59752111 QU 36 87802 QU UNDERPAD BIRDEYE W/ROZ VINTEX 3MX QUILTED 25.349 0011555368 06-4832 30 24	%JN 2PLY, TKNS@13SPI&LB 59750101 BL 36 25032 QU UNDERPAD IBEXVINTEX W/TKNS 34X36 BLEACHED 51.722 0011555720 06-5019 34 24
@JOIN PADS W/LB GRP 3 59752111 QU 36 87802 QU UNDERPAD BIRDEYE W/ROZ VINTEX 3MX QUILTED 25.349 0011555367 06-4832 30 24	%JN 2PLY, TKNS@13SPI&LB 59750101 BL 36 25032 QU UNDERPAD IBEXVINTEX W/TKNS 34X36 BLEACHED 51.722 0011555724 06-5019 34 24
@JOIN PADS W/LB GRP 4 59752100 QU 36 87803 QU UNDERPAD BIRDEYE W/TE 34X36 QUILTED 25.685 0011556716 07-6913 34 24	%JN 2PLY, TKNS@13SPI&LB 59750101 BL 36 25032 QU UNDERPAD IBEXVINTEX W/TKNS 34X36 BLEACHED 51.722 0011555728 06-5019 34 24
@JOIN PADS W/LB GRP 4 59752100 QU 36 87803 QU UNDERPAD BIRDEYE W/TE 34X36 QUILTED 25.685 0011556715 07-6913 34 24	<b>BEST COPY AVAILABLE</b>

DEPT #: 127

NAME: *Lea Jones*

DATE: *7/11/96*

CLOCK #: *205146213*

REMEMBER TO CLOCK WHEN  
LEAVING THE PLANT.

CODE:

COMMENTS:

HOURS  
WORKED

START	STOP
START	STOP
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START	STOP
START	STOP
START	STOP
START	STOP

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Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop	Start	Stop
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TA	TM	OA	OM													
TA	TM	OA	OM													
TA	TM	OA	OM													

DEPT #: 121

NAME: *Karen L. Smith*

DATE: *7/08/96*

CLOCK #: *937328120*

REMEMBER TO CLOCK WHEN LEAVING THE PLANT.

HOURS WORKED

CODE:

COMMENTS:

<p>TK BND &amp; TIES - 9 71119456 80 PAT GOWN IV CAROLINA CLS LA CUST/LOGO/SP 28.205</p> <p>0071541047</p> <p>06-6307 L 48</p>	<p>TKNK, SLV, TT, ATTI, FAC 70420430 130 PAT GOWN IAD TBL LG TRACY BLUE 36.490</p> <p>0081535627</p> <p>06-3917 L 48</p>	<p>#TKNK 5X, SLV 2X, WSTI, ATT 74E34430 130 PAT GOWN MP REG SLV WTT WWSI BLU L BLUE 30.960</p> <p>0071542679</p> <p>07-3342 L 48</p>
<p>TK BND &amp; TIES - 9 71119456 80 PAT GOWN IV CAROLINA CLS LA CUST/LOGO/SP 28.205</p> <p>0071541059</p> <p>06-6307 L 48</p>	<p>#TKNK, SLV, ATTI, FAC 70Q20440 160 PAT GOWN IAD SIDEWAP WTT GRY LG BLUE 30.960</p> <p>0071542679</p> <p>07-3342 L 48</p>	<p>@ATT SNAPS (6 ST) 66T92065 180 LADIES WARMUP JEWEL NK SIS TEAL LARGE TEAL 26.458</p> <p>0141549870</p> <p>06-6336 L 48</p>
<p>TK BND &amp; TIES - 9 71119456 80 PAT GOWN IV CAROLINA CLS LA CUST/LOGO/SP 28.205</p> <p>0071541053</p> <p>06-6307 L 48</p>	<p>@ATT SNAPS (6 ST) 66102315 110 COMPELL LAB COAT WTE LARGE WHITE 13.229</p> <p>0121542387</p> <p>06-1267 L 24</p>	<p>@ATT SNAPS (6 ST) 665P2067 150 WMS WARMUP JKT JEWEL NK SIS PEACH SMA PEACH 13.229</p> <p>0151533202</p> <p>06-0982 S 24</p>
<p>TK NK, SLV, TT, ATTI, 6X 0P70430 50 PAT GOWN ANG BK REG SLU TT CHAMP SL L BLUE 26.933</p> <p>0071540053</p> <p>05-4908 L 48</p>	<p>@ATT SNAPS (6 ST) 66102315 180 COMPELL LAB COAT WTE LARGE WHITE 13.229</p> <p>0121542391</p> <p>06-1267 L 24</p>	<p>TK BND &amp; TIES - 9 71119456 80 PAT GOWN IV CAROLINA CLS LA CUST/LOGO/SP 28.205</p> <p>0071541047</p> <p>06-6307 L 48</p>
<p>TKNK 5X, SLVS 2X - 7X 1A36468 130 PAT GOWN MP ILLT REG SLV CLS LARGE CUST/LOGO/SP 24.091</p> <p>0051543125</p> <p>06-4362 L 48</p>	<p>TK BND &amp; TIES - 9 71119456 80 PAT GOWN IV CAROLINA CLS LA CUST/LOGO/SP 28.205</p> <p>0071541047</p> <p>06-6307 L 48</p>	<p>TKNK 5X, SLVS 2X - 7X 1A36468 130 PAT GOWN MP ILLT REG SLV CLS LARGE CUST/LOGO/SP 25.233</p> <p>0051543125</p> <p>06-4362 L 48</p>



DEPT #: 123

NAME: Tony Johnston

DATE: 7/08/96

CLOCK #: 710342178

REMEMBER TO CLOCK WHEN LEAVING THE PLANT.

HOURS WORKED

CODE:

COMMENTS:

@ATTACH SNAPS (5 SETS) 66592084 TEA 52101 UNIS X WARMUP JACKET TEA XL BILT BAGS WHITE 22.766  0131538348 XL 48 05-5200	@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542386 L 24 06-1267	@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542378 L 24 06-1267
@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542392 L 24 06-1267	@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542380 L 24 06-1267	@ATT SNAPS (6 ST) 66T92065 TEA 52102 LADIES WARMUP JEWEL NK SIS TEAL LARGE TEAL 26.458  0141549870 L 48 06-6336
@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542381 L 24 06-1267	@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542387 L 24 06-1267	@ATT SNAPS (6 ST) 665P2067 PEA 52102 WMS WARMUP JKT JEWEL NK SIS PEACH SMA PEACH 13.229  0151533202 S 24 06-0982
@ATT SNAPS (5 SETS) 6682G187 MTY 52101 AXIUMIC SNAP FRT SHORT SLV MISTY SM MISTY 22.766  0151542588 S 48 06-0226	@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542391 L 24 06-1267	@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542388 L 24 06-1267
@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542390 L 24 06-1267	@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542382 L 24 06-1267	@ATT SNAPS (6 ST) 66102315 WTE 52102 COMPEL LAB COAT WTE LARGE WHITE 13.229  0121542389 L 24 06-1267

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Start	Stop	TA	TM	OA	OM
Start	Stop	TA	TM	OA	OM
Start	Stop	TA	TM	OA	OM



DEPT #: 123

NAME: Tony Johnston

DATE: 7/08/96

CLOCK #: 710342178

REMEMBER TO CLOCK WHEN LEAVING THE PLANT.

HOURS WORKED

CODE:

COMMENTS:

ATTACH COUPONS TO BUCKLES

<p>@ATTACH SNAPS (5 SETS) 66542085 CBL 160 52101 UNISEX WARMUP JACKET CBL LG ULT RAGS CEIL BLUE 22.766 0131537254 05-6627 L 48</p>	<p>@ATT SNAPS (4 ST) 6654G097 CBL 150 52100 XX JEWEL NK TUNIC CAP SLV KAUMU CBL SM CEIL BLUE 19.070 0191544675 07-4428 S 48</p>	<p>ATT 3 METAL SNAPS 66542414 CBL 180 12036 STEP IN DRESS ANGLE BACT SIS CBI XI CEIL BLUE 17.592 0241544625 07-5869 XL 48</p>
<p>@ATT SNAPS (4 ST) 6654G096 CBL 150 52100 XX JEWEL NK TUNIC CAP SLV KAUMU CBL ME CEIL BLUE 19.070 0191544672 07-4426 M 48</p>	<p>ATT 3 METAL SNAPS 66542416 CBL 180 12036 STEP IN DRESS ANGLE BACK SIS CBL MED CEIL BLUE 17.592 0241539624 06-6358 M 48</p>	<p>@ATT SNAPS (6 ST) 665E2064 BRX 170 52102 LADIES WARMUP SIS JEWEL NK XI BRX BURDEAUX 26.458 0141543037 05-3056 XL 48</p>
<p>ATTACH SNAPS (5 SETS) 665E2043 BRX 90 52101 TUNIC VNK RAG SLV CASCADE BRX 2XL BURDEAUX 11.383 0131543031 07-6681 2XL 24</p>	<p>@ATT SNAPS (4 ST) 6654D225 CBL 100 52100 UNISEX WARMUP JKT RAG SLV CEIL BLUE LG CEIL BLUE 19.070 0101547772 07-6520 L 48</p>	<p>@ATT SNAPS (4 ST) 6654D225 CBL 100 52100 UNISEX WARMUP JKT RAG SLV CEIL BLUE LG CEIL BLUE 19.070 0101547769 07-6520 L 48</p>
<p>@ATT SNAPS (6 ST) 66532064 JAD 150 52102 LADIES WARMUP JACKET ULT XL JAD SETIN JADE 26.458 0151544695 06-5702 XL 48</p>	<p>@ATT SNAPS (6 ST) 66532062 JAD 150 52102 LADIES WARMUP JACKET ULT SXL JAD SETIN JADE 26.458 0151544692 05-5494 3XL 48</p>	<p>@ATT SNAPS (4 ST) 66544386 CBL 180 52100 XX UNISEX WARMUP JACKET ULT SIS CBI CEIL BLUE 19.070 0141539017 07-3348 M 48</p>
<p>@ATTACH SNAPS (5 SETS) 6653F634 JAD 90 52101 XX VNK TUNIC RAG SLV FRT DPN KAUMU JAD JADE 22.766 0131539388 07-3678 XL 48</p>	<p>@ATTACH SNAPS (5 SETS) 6653F635 JAD 90 52101 XX VNK TUNIC RAG SLV FRT IMP DAUMU JAD JADE 22.766 0131548952 07-6507 L 48</p>	<p>@ATTACH SNAPS (5 SETS) 665E2044 BRX 90 52101 NURSES TUNIC VNK RAG SLV BRX XL BURDEAUX 11.383 0131543032 07-6771 XL 24</p>

Stop	Start	Stop	Start	Stop	Start
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Stop	Start	Stop	Start	Stop	Start	TA	TM	OA	OM
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Stop	Start	Stop	Start	Stop	Start	TA	TM	OA	OM
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Stop	Start	Stop	Start	Stop	Start	TA	TM	OA	OM
Stop	Start	Stop	Start	Stop	Start	TA	TM	OA	OM
Stop	Start	Stop	Start	Stop	Start	TA	TM	OA	OM

DEPT #: 123

NAME: Tony Johnson

DATE: 7/08/96

CLOCK #: 710342178

REMEMBER TO CLOCK WHEN LEAVING THE PLANT.

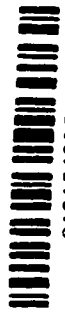
HOURS WORKED

CODE: [ ]

Comments:

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Stop					
Start	TA	TM	OA	OM	
Stop					
Start	TA	TM	OA	OM	38
Stop					

ATTACH SNAPS (5 SETS) 6653F635 90 JAD 52101 XXVJK TUNIC RAG SLV FRT DPN KAUMU JAD JADE 22.766   0131548954 07-6507 L 48									

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College: ESJC \_\_\_ MSTC \_\_\_  
Course#: \_\_\_\_\_

**WORKFORCE 2000 PARTNERSHIP  
INDIVIDUAL EDUCATION PLAN**

Date: \_\_\_\_\_  
Level: \_\_\_\_\_

Name: \_\_\_\_\_ Male: \_\_\_ Female: \_\_\_ Age: \_\_\_ Birthdate: \_\_\_\_\_

Street: \_\_\_\_\_ Social Security#: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_ Zip: \_\_\_\_\_ Phone#: (\_\_\_\_) \_\_\_\_\_

Classification: In-State Student \_\_\_ Out-of-State Student \_\_\_ (State) \_\_\_ International Student \_\_\_ (Country) \_\_\_\_\_

Mark Only One: Civilian \_\_\_ Active duty \_\_\_ Retired Military \_\_\_ Military dependent \_\_\_

Race: White \_\_\_ Hispanic \_\_\_ Asian \_\_\_ Black \_\_\_ Indian \_\_\_ American Pacific Islander \_\_\_ Alaskan Native \_\_\_ Other(Specify) \_\_\_\_\_

Marital Status: Single \_\_\_ Married \_\_\_ Separated \_\_\_ Divorced \_\_\_ Widowed \_\_\_

Number of Children Living with You: \_\_\_\_\_

Employer: \_\_\_\_\_ How Long? \_\_\_\_\_ Job Title: \_\_\_\_\_

How many hours per week do you work this job? \_\_\_\_\_ Do you have more than one job? \_\_\_\_\_

Please rate your ability to perform each of the following activities. (P=Poor, F=Fair, G=Good, E=Excellent):

Read English \_\_\_ Understand English \_\_\_ Speak English \_\_\_ Write English \_\_\_

Work as part of a team \_\_\_ Use Math \_\_\_ Solve problems/use reasoning \_\_\_

Which of the following are required for your job? (Check all that apply)

Read Instructions \_\_\_ Speak English \_\_\_ Receive Spoken Instruction in English \_\_\_

Write English \_\_\_ Use Math \_\_\_ Solve Problems \_\_\_ Team work \_\_\_

What are your vocational goals? Immediate \_\_\_\_\_ Long Range \_\_\_\_\_

Circle the highest grade you completed: 0 1 2 3 4 5 6 7 8 9 10 11 12 GED 13 14 15 16 17 18

Last school attended: \_\_\_\_\_

What are your educational goals? (Check all that apply)

Improve skills for current job \_\_\_ Improve skills for changing technology/future jobs \_\_\_

Improve reading/writing/math \_\_\_ Improve problem solving/critical thinking \_\_\_ Improve speaking/listening \_\_\_

Improve English(for non-native speakers) \_\_\_ Pass GED tests \_\_\_ Other(specify) \_\_\_\_\_

How would you like to be contacted? Through supervisor \_\_\_ Call at home \_\_\_ Letter \_\_\_ Other \_\_\_\_\_





**WORKFORCE 2000 PARTNERSHIP**  
**Individual Education Plan**  
**Learner's Page**

Name of Course: Production Percentage Math  
 Date of Course: \_\_\_\_\_

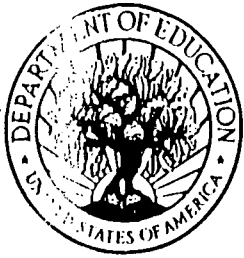
Name: \_\_\_\_\_  
 Employer: \_\_\_\_\_

GOAL(S)	INSTRUCTIONAL OBJECTIVES	LEARNING ACTIVITIES	PREVIEW/REVIEW SCORE	EVALUATION COMMENTS	
<ul style="list-style-type: none"> <li>● Improve skills for current job</li> </ul>	III.B.100 Interpret ratio and proportion, e.g. preparing mixtures, figuring pay rate	Motivational Activity	_____ _____ _____		
<ul style="list-style-type: none"> <li>● Improve reading/writing/math</li> </ul>		Multiplication and Division Vocabulary and Applied Practice on the Calculator			
		Discussion-- Vocabulary of Ratios	_____ _____ _____		
		Discussion-- Vocabulary of Rates			
		Guided Practice-- Production Percentage Equation		X	
		Applied Practice and Closure Activity-- Production Percentage Worksheet			

Employee Signature \_\_\_\_\_ Date \_\_\_\_\_

Instructor Signature \_\_\_\_\_

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National Library of Education (NLE)  
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