

Area/Skill - Math	Cognitive Skill Level - Application	Correlation to Math Framework - 05.01/05.03	Lesson Number - 27
<p>Activity Title - Percent Box</p> <p>Goal/Objective</p> <p>To find the part of a number when the percentage of the whole is known or to find the whole number when the part or percentage is known.</p> <p>Lesson Outline</p> <p>Introduction</p> <p>Discuss that when working with percentage problems, one must determine either the percentage of a number or the number that is represented by the percentage.</p> <p>Activity</p> <p>Have students use the percent box to:</p> <ol style="list-style-type: none"> 1. Identify the part, whole, or percent of a number 2. Put the number in the appropriate place 3. Use the formula to solve the problem <p>Debriefing/Evaluation Activity</p> <p>Have students review the process of setting up a problem and using the formula to solve the problem.</p>		<p>Materials/Texts/Realia/Handouts</p> <ul style="list-style-type: none"> • Paper, pencils • Chart paper • Copy of percent box as a handout • Calculators • Newspapers 	
<p>Real-Life Connection</p> <p>Distribute newspapers to the class and have them locate sale pages and compute original prices, percentages off, and savings.</p>		<p>Extension Activity</p> <p>Have the students use the percent box to figure percentage problems located in textbooks used in the classroom.</p> <p>ESE/ESOL Accommodations</p> <ul style="list-style-type: none"> • Allow students to work in pairs or small groups. • Provide students with a handout of the percent box into which they can place the numbers. • Allow additional time for students to complete the problems. • Provide students with calculators to figure percentage problems. 	

GED 2002 Teachers' Handbook of Lesson Plans - Script

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Activity Title - Percent Box

Introduction

Say: Every day we see percent problems. We use percents to figure sale prices when shopping to determine how much we have saved when buying a sale item or to find the original price of an item when we know the sales price. Sometimes, it is difficult to remember what formula to use to figure out percentage problems. Today we are going to use a visual called a percent box to help us.

Main Activity

Say: The percent box can help us figure the answers to some problems that each of us may encounter in our daily lives. A percent box contains four (4) boxes within the larger box. Each of the small boxes represents a part of the percent problem. P equals % and W equals the whole. To find out what the part is, you simply multiply diagonally and divide by the remaining number. This is an easy to use, easy to remember formula for working with all percent problems. Let's see how it works.

While talking with students about the formula, draw the percent box on the board or chart paper. You may wish to have the percent box drawn on a handout to provide to students.

P	%
W	100

Provide students with sample percentage problems. Have them use the percent box to figure the answers.

Debriefing/Evaluation Activity

Discuss with students that this easy to remember formula can work with any type of percentage problem.

Using the newspaper, have students locate different sales advertisements. Using the percent box, have them figure the original and the sales price of specific items.