

T E X A S   A D U L T   E D U C A T I O N   S T A N D A R D S  
L E S S O N   P L A N

**Before you begin**

**Title:** Introduction to Ratios and Proportions

**Setting:** ABE/ASE (GED)

**NRS Level(s):** Level 3: Low Intermediate Basic Education,  
Level 4: High Intermediate Basic Education

**Open entry/exit:** Yes

**Context:** Academic

**Standard(s):** Use Math to Solve Problems and Communicate

**Benchmark(s):** 8.3, 8.4

**Objective:** To identify ratios and proportions and use these concepts in problem solving.

**Materials:** Chalkboard, chalk, pencil, paper

**Estimated time needed to prepare for this lesson plan:** 30 minutes

**Estimated time needed to complete this lesson plan:** 1 hour and 30 minutes

**The Lesson Plan**

**Introduce the lesson:**

Define the meaning of ratios and proportions and present examples.

**Teach the lesson:**

Present examples to the class. How many males and females are in the class? Introduce the proportion equation. Explain cross multiplication and how the equation balances.

i.e.  $\frac{2}{6} = \frac{x}{18}$     $x=6$

**Practice the lesson:**

Students are given several examples of problems related to real world activities. The teachers should observe each student to make sure they are applying the proper concepts. Example: If we bring to class pizza cut into 8 slices and we have 12 students, how many pizzas we need if each student eats 3 slices?

$$\begin{aligned} x/12 \text{ students} &= 3 \text{ slices/one student} & x &= 12 * 3 = (36 \text{ slices}) \\ & & & = 5 \text{ pizzas} \end{aligned}$$

**Assess the lesson:**

Introduce feedback given to students working on the problems

**Apply the lesson to the real world:**

Students can apply this lesson to any other real-world situation.

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