



Lesson: Closure

Lesson Objective

- Students will discuss how ratios are used in the real world, connecting the material taught in the course to the information presented in the video.

Instructional Materials

Material	Quantity	Description
Computer with Internet access, Apple's QuickTime, and speakers	1	For highest quality, download the video and use Apple's QuickTime: http://www.apple.com/quicktime/download/
Projector	1	
Chart paper from Introduction lesson		
Chart paper (blank)	1 sheet	
Display Master	1 (optional)	Questions for Discussion

Preview

This lesson provides students with an opportunity to connect the mathematical ideas taught throughout the course with the video presented at the beginning of the course. Students will discuss the examples presented, incorporating the knowledge they have gained from the course.

Engage Acquired Knowledge

Ask students questions about their learning experiences in this course, such as:

- What did you learn about ratios and rates?
- How are ratios and rates alike?
- How are ratios and rates different?
- What are the 3 ways to write ratios and rates?
- What are equivalent ratios and rates?
- How can you decide whether 2 ratios or rates are equivalent?
- How are ratios and rates used in real life?
- What was your favorite part of the course? What was your least favorite part?
Explain.
- What was the easiest part of the course? What was the hardest part of the course?
Explain.

Revisiting the Hook

Show students again the video that they watched at the beginning of the course. The video can be found at TV 411:

<http://www.tv411.org/qt/>

To review, in this video, students learn how equivalent ratios are used to adjust recipes for the expected number of dinner guests. The video explains that maintaining the appropriate ratios of ingredients is important because it ensures the meal will taste right. Students also learn that it is easy to adjust the ingredients for a recipe when you know how to find equivalent ratios.

Discussion

After watching the video, ask students questions such as the following. Use the Questions for Discussion display master as needed.

- Why is an understanding of ratios important to chefs?
- What mathematical ideas and concepts that you have learned did you see in the video?
- If the ratio of water to rice is 2:1, what is an equivalent ratio of water to rice?
- If the ratio of water to rice is 2:1, and I used 8 cups of water and 2 cups of rice, did I use the right ratio? How do you know?
- If the ratio of people to potatoes is 4:2, how many potatoes would you need for 16 people?
- This is the second time you have watched the video. Is there anything you noticed this time that you did not notice before? Did you think about the information differently? Explain.
- How do you think using ratios and rates will help you in math class? In the real world? Explain.

Use the chart paper from the Introduction lesson to review the answers to the next 2 questions. Then, write any new answers on the blank chart paper. Students should be able to think of new ideas, especially about rates.

- After seeing the video, can you think of any other times when you use ratios or rates in the real world? (making any mixture (e.g., paint, drinks, cement); shopping; calculating mileage; etc.)
- What other professions require an understanding of ratios or rates? (chemist, doctor, pharmacist, driver, etc.)

Closure

Review examples of how ratios and rates are used in the real world. Summarize the concepts presented in the video and in the course.