## **Unit - Ratios and Proportions**

**Determine Proportional Relationships** 

By the end of this lesson you will be able to	<del>-</del>
Example 1 - Classroom A has a 4 to 3 ratio of girls to boys. Classroom E situation between girls to boys in these two classrooms proportional?	3 has a ratio of 12 to 10. Is the
What does it mean by proportional?	
What two quantities are being compared in the problem?	
Write the ratio for Classroom A	What can you do?
	1)
Are the two classrooms proportional? Provide an explanation for your answer.	2)
2) How did you use <i>cross-products</i> to help you solve this problem? [Show your work for solving with cross products here]	3)
3) What equivalent ratios did you use to help you solve this problem? [Show your work for solving with equivalent ratios here]	
Example 2 - Plane A traveled miles in hours. Plane hours. Is the rate between the two planes proportional?	B traveled miles in
What two quantities are being compared in the problem?	
Write the ratio for Plane A Write the ratio for Plane B [Show your w	ork for solving with equivalent ratios here]
Is the rate between the two planes proportional? Provide an explanation for you	ır answer.

Examp	e 3 - Cineplex A is offering a 5-movie pass for \$ Cineplex B is offering an 8-movie pass
for \$_	Is the rate between the two Cineplex theatres proportional?
What t	wo quantities are being compared in the problem?
Write	the ratio for Theatre A Write the ratio for Theatre B [Show your work for solving with cross products here]
Is the	rate between the two theatres proportional? Provide an explanation for your answer.
Your T	furn to Practice
Fill in t	he missing values given in the video. Write your answers in complete sentences.
1)	Mike's bag of M&Ms had a ratio of red to green M&Ms. Julie's bag had a ratio of red to green M&Ms. Simplify the ratios in order to determine if Mike and Julie have bags with proportional amounts of red and green M&Ms.
2)	Andrew made baskets in minutes in Tuesday's practice. On Wednesday he made baskets in minutes. Use cross products to determine if Andrew able to keep his rate the same.
2)	
3)	A pumpkin spice cookie recipe for a dozen cookies calls for cups of flour. Gretel is making cookies for her classmates. She decides to use cups of flour. Use equivalent ratios to determine if she is keeping the same proportion of number of cookies to cups of flour.