

## Lesson Objectives & Teacher Notes

Lesson Title	Ratio				
Subject	Mathematics	Grade	6	Strand	Number and Operations.
Objective	The objective of this lesson is to solve problems using ratios.				
Page 1	Title page.				
Page 2	Review ratios. Remind students that a ratio is a comparison of two (or more) numbers. Ratios are generally written with the two numbers separated by a colon e.g. 2:5, or as a fraction. We say it is a 'ratio of 2 to 5'. In ratio order is important. Find the ratio of green fish to orange fish; the number of green fish must come first. A ratio of 2:5 is not the same as a ratio of 5:2. Find all the ratios which show the ratio of green fish to orange fish and drag them into the box. Drag answers from the side of the page. Find the ratio of orange fish to green fish. Remind students that this time the orange fish come first.				
Page 3	The fish are cloned. Ask a student volunteer to drag the appropriate number of orange and green fish into the tank. Drag the answer from the right to check.				
Page 4	The fish are cloned. Ask a student volunteer to drag the appropriate number of orange and green fish into the tank. Ask them what they notice, the ratio is the same as the previous example but the number of fish has doubled.				
Page 5	Find the ratio of the number of black fish to the number of red fish in each example. Ask students what they notice. These ratios are equivalent because they have the same meaning - for every 2 black fish there are 3 red fish.				
Page 6	Summarize finding equivalent ratios. An easy way to compare ratios is to write them as fractions. You can find equivalent ratios by multiplying or dividing both sides by the same number. This is similar to finding equivalent fractions.				
Page 7	Match the equivalent ratios (not all the ratios have a match and some have more than one match.)				
Page 8	Solution to previous page. Ask the students to find additional equivalent ratios.				
Page 9	Solve this word problem using ratios and proportions.				
Page 10	Solve this word problem using ratios and proportions.				