Name		Per
	Mrs. Doolan/Math6	2000 - 0000

10-2: Equal Ratios



Objective: You've used ratios to compare quantities. Now you will learn how to use tables to find equal ratios.



A ratio is a kind of fraction. Create equal ratios by multiplying both quantities of the ratio by the same amount. A table can help organize this information.

The city planners in Boston have decided that the town needs 2 fire hydrants for every 3 city blocks. This ratio is shown in the table below. Use the table to create equivalent ratios to the original 2:3 ratio:

		x 2	x 3	x 4	?	?
Fire hydrants	2	4	6		10	
City blocks	3	6		12		18





Extend: So you can multiply to create equal ratios. Is there anything else you can do?

That's right! Division can also be used to find equal ratios. Divide the original ratio. You can use any number, but numbers that go evenly into both quantities are the easiest to use. Let's try it:

In Mr. Gow's "Walk in the Woods" program, 24 out of the 32 students could identify a Great Horned Owl. Create a table showing the number of students who can identify the GHO, and create equivalent, or equal, ratios using division:



		÷ 2	÷ 4	÷ 8
# Identify GHO	24	12		
Total # Walkers	32	16		



You Try:

Give two ratios equal to the given ratio:

a. 4 to 5

b. 10:20

c.



Extension: For a given ratio, how many equivalent ratios can you create? Why?