Name: Key	Date:
Topic:	Class:

	A financial constraint of any property of the	
Main Ideas/Questions	Notes/Examples	
What is a Ratio?	relationship between	n two quantities
Writing Ratios	Given quantity a and quantity b , the ratio of a to b can be written in three ways: $a:b$ Like fractions, ratios should always be written in simples f	
Examples	Directions: Write each ratio in simplest 1. 8 DVDs to 2 books 4: (form in two different ways. 2. 15 girls to 24 boys 5:8 8
	3. 20 flounder to 8 bluefish 5 2 5:2	4. 6 chaperones to 42 students
	5. 36 bananas to 27 apples 4:3 4 3	6. 8 skittles to 14 M&M's 4:7 4
	7. 30 quarters to 72 nickels 5:12 5 12	8. 24 kayaks to 40 paddle boards 3:5 5
	9. This past season, the hockey team had 48 wins and 28 losses. Find each ratio in simplest form.	
48 +28 76	a) wins to losses 12:7 7	b) losses to total games played 7:19 7
20 1	10. Given the word MASSACHUSETTS, find each ratio in simplest form.	
76-19	a) vowels to consonants 4:9 4	b) S's to total letters $\frac{4}{13} + 4:13$

Ratios with Measurement	When a ratio involves measurements, both quantities must have the same unit of measure. When they are different, you must convert one unit to the other. It is usually easier to convert the larger quantity to the smaller quantity.	
Examples 236 F44 2470	Directions: Write each ratio in simple	est form.
	11. I foot to 4 inches, 12 in to 4 in 12 - 3	12. 28 inches to 3 feet 28 to 36 7 9
	13. 2 feet to 2 yards 2ft to 6 ft	14. 4 yards to 30 inches 144 to 30 24 5
	15. 200 centimeters to 5 meters 200 & 500	16. 2 kilometers to 72 meters 2000 & 72 2000 & 72 2000 & 72 2000 & 72 1000 & 72 1000 & 72
	17. 4 cups to 8 pints 4 cups (e pures	18.3 pounds to 24 ounces 48 ounces to 24 ounces Z
	19.2 gallons to 10 quarts 8 2001s to 10 quarts 4	20. 3 pints to 4 gallons 3 32 32
	21. 4 quarts to 6 gallons	22. 6 cups to 2 gallons 6 to 32 6 37
	23. 28 minutes to 1 hour 28 to 60 28 = 14 = 7 60 = 30 = 15	24. 3 minutes to 48 seconds 180 to 48 180 = 90 - 45 - 15 48 = 24 - 72
	25.8 hours to 2 days 8 to 48	26. 1 day to 54 minutes 1440 720 80 54 - 27 3
	27. It took Jane 1 hour and 20 mir Ava just 45 minutes. Find the ro to the time it took Ava to do h	nutes to do her math homework while it too atio of time it took Jane to do her homewo ners.

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