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GRADE 6 MATHEMATICS

NAME

PERIOD

Unit 2, Lesson 15: Part-Part-Whole Ratios

1. Here is a tape diagram representing the ratio of red paint to yellow paint in a mixture of orange paint.

Wednesday 11/14

- a. What is the ratio of yellow paint to red paint? 2:3 or 6:9
- cups of yellow paint

235

cups of red paint

3	3	3
-		6

3

3

- b. How many total cups of orange paint will this mixture yield?
- 2. At the kennel, the ratio of cats to dogs is 4 : 5. There are 27 animals in all. Here is a tape diagram representing this ratio.

3

15 dogs

12 cats

number of cats number of dogs

ats gs

a. What is the value of each small rectangle?

- b. How many dogs are at the kennel?
- c. How many cats are at the kennel?
- 3. Last month, there were 4 sunny days for every rainy day. If there were 30 days in the month, how many days were rainy? Explain your reasoning. If you get stuck, consider using a tape diagram.
- 4. Noah entered a 100-mile bike race. He knows he can ride 32 miles in 160 minutes. At this rate, how long will it take him to finish the race? Use each table to find the answer. Next, explain which table you think works better in finding the answer. (Nex + Page)

Unit 2: Introducing Ratios Lesson 15: Part-Part-Whole Ratios 24 Summy and 6 rainy. 3

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Wednesday								
NAME		DATE 4 PERIOD						
0	Table A: Pretty Unit rate and	quick to find d multiply up ()	Table B: Not have inc	too bad. I wouldn't luaed 96 miles?				
	distance (miles)	elapsed time (minutes)	distance (miles)	elapsed time (minutes)				
	22 32	160 -32	3 (32)	160				
+ 3	2 1 UNI-	te 5, 2130	2 + (96) - 8	480				
	100 (100	500 J×100	44	20,20				
	L. A		*25(100	500 200				
				1				

- (from Unit 2, Lesson 12)
- 5. A cashier worked an 8-hour day, and earned \$58.00. The double number line shows the amount she earned for working different numbers of hours. For each question, explain your reasoning.

12

wages earned (dollars)

time worked (hours) a. How much does the cashier earn per hour? b. How much does the cashier earn if she works 3 hours? either(3(7,25) = 21.75 or add 14.5 + 7.25(from Unit 2, Lesson 13)

6. A grocery store sells bags of oranges in two different sizes.

• The 3-pound bags of oranges cost \$4. • The 8-pound bags of oranges for \$9. cheaper

could find for same number of oranges 24 is a common multiple PR Which oranges cost less per pound? Explain or show your reasoning. (from Unit 2, Lesson 10 ×8 (3 \$44)×8 3 8 19 (24 \$32)×8 3 24 271

Unit 2: Introducing Ratios Lesson 15: Part-Part-Whole Ratios