Before Lesson TO DO List: [0/24]1. Get out your homework and make sure your name is on it. in your agenda 2. Write the 3. Fill in table of contents p 34 & 35 L162 Rates ito Ratio 4. Glue your notes on pp. 34 & 35 5. Go over your homework with your group.

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<u>unit rate</u> a rate that is simplified so that it has a denominator of 1 when it is written as a fraction



Lessonii



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- You will

recognize that they can as sociate an an operation of the patternites particularly called the nate.

Given a ratio, students precise vidents associated rate. They identify the unit cale at rate unit.



HINT Atratio compares enduring but a <u>matic</u> compares & difficient and units Unit: Rates and Percents Student Handout 1

Name	
Date	Pd
	0.3

INTRO TO RATES

A rate is a specific Comparison of 2 quantities with different units

1. Let's practice finding a rate! Take your first and second finger and find your pulse either on your wrist or on your neck. When time begins, silently count the number of beats in one minute. Record your results below, and then exchange your results with two neighbors. YOU **NEIGHBOR NEIGHBOR** TIME IN TIME IN TIME IN BERTS BEATS BEATS MINUTES MINUTES MINUTES 72×1,72:1 Ratio: Ratio:____ Rate: 12 beds Der Min Rate: ____ Rate: ____ Why is it beneficial to determine the rate of each person? To make it egsier for a comparison.

RATE	• A rate describes the comparison by <u>OiViSion</u> of two quantities with different units.
	Ex: Miles per hour, dollars per hour
	• The unit rate describes the <u>Amount per 1</u> or the rate when the <u>denominator</u> is one.
UNIT RATE	Ex: \$399 per pound; \$3.91 per gellon

Complete the table by using the following information.

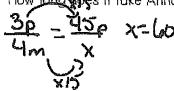
SITURTION	RATIO	UNIT RATE	RATE
2. Samuel can do 120 jumpina lacks in two minutes.	190:2	<u>Lo</u> ji	12011 - 60ji 2 Min Imin
3. A large plane is able to cruise at 530 miles per hour.	520%1	530 Hi.	530mi = 1000 1 hour 2 hour
4. A babysitter gets paid \$60 for 4 hours of work.	W24	B. Lour	4 hours 1 hours

Rates can also be used to <u>Solve problems</u> and make predictions.

Use a tape diagram, a double number line, or a ratio table to answer the questions below.

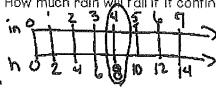
- 5. Annabelle reads $\frac{3}{4}$ of a page/minute. Of = 3 pages in 4 win.
 - a. How many pages can Annabelle read in 20 minutes? 15 pags

b. How long does it take Annabelle to read 45 pages? Loomin.





- 6. During a thunderstorm, the local news reports rainfall at $\frac{1}{2}$ of an inch/hour.
 - a. How much rain will fall if it continues for 8 hours? 4:nche



b. How long will it take 6 inches of rain to fall? 12 hours

Unit:	Rates and	Percents
Home	work I	

Name	
Date	Pd

INTRO TO RATES

During a PE fitness test, Coach Jaminez recorded each student's stats. Help him determine which students should be promoted to the next fitness level. Complete the information missing in the table below.

NICO	RATIO	UNIT RATE	HOW MANY IN 5 MINUTES?
78 sit-ups in 2 minutes			
42 push-ups in 3 minutes			

NATALIE	RATIO	UNIT RATE	HOU MANY IN 5 MINUTES?
87 sit-ups in 3 minutes			
26 push-ups in 2 minutes			

NELSON	RATIO	UNIT RATE	HOU MANY IN 5 MINUTES?
105 sit-ups in 3 minutes			
44 push-ups in 4 minutes			

In order to be promoted you must beat the following rates in both categories:

SIT-UPS: 35 SIT-UPS/MINUTE	PUSH UPS: 12 PUSH-UPS/MINUTE
Who will be promoted? Justify your solution.	