Unit 5 Review

Name:

Hour: 1

1. Paul sells 20 adult tickets and 30 student tickets for the school play. Write the simplified ratio of student tickets to adult tickets in three ways. Also EXPLAIN what the ratio represents.

	Words	Colon	Fraction
20 3	21.3	2:3	2/13

3. Grace & Jim each bought notebooks for school. Grace got 6 notebooks for \$4.80. Jim got 5 notebooks for \$3.90. Jim says he got a better deal. Explain whether or not he is correct and how you know.

Grace \$4.80	Jim \$3.90
\$.80 Gn.b.	(\$.78/
IND	2 n.b.

5. *This table contains equivalent ratios between x and y. Find the missing value

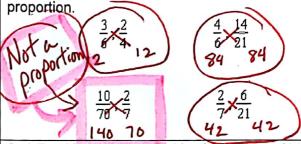


aluc			
(x)	7	y	
4		5	
8		10	
		20	
24	1	30	

2. Find the Unit Rate for the situation.

360 km in 9 hours

4. Determine what pairs of ratios CANNOT form a



6. * Frankie bakes 45 cookies in 3 hours. At this rate, how many cookies will Frankie bake in 6 hours?

* Alexander can make 18 cakes in 2 hours.

Brianna can make 21 cakes in 3 hours.

Caleb can make 28 cakes in 4 hours.

Select ALL true statements.

A. Brianna & Caleb make cakes at the same rate.

- B. Caleb makes cakes faster than Alex because 28 is more than 18
- C. Brianna makes cakes faster than Alexander because 21 is more than 18
- D. Alexander makes cakes faster than Caleb & Brianna.
- Brianna makes cakes at a slower rate than Alex.

Caleb makes cakes slower than Alexander because his rate per hour is less than Alexander's rate per hour (hint: find Unit Rates of each person

8. The fuel for a chain saw is a mix of oil and gasoline. The label says to mix 6 ounces of oil with 20 gallons of gasoline. How much oil would you use if you had 60 gallons of gasoline?

9. Find the value(?) that completes the proportion.

$$\frac{8}{9} = \frac{?}{125}$$

$$\frac{200}{1200} = \frac{222}{18}$$

$$\frac{200}{1200} = \frac{222}{18}$$

	10. *How many ounces of cherry juice concentrate are needed to mix with 12oz of water? Sw. 12w Ounces of Water of Juice 4 2 8 4 12 16 8	11. * Mr. Hicks draws a table showing a proportional relationship and asks students to find the missing value. What students correctly describe how to find the missing value? Tabitha: add $6+5=11$, because $5+5=10$. Lucy: multiply $6 \times 2 = 12$, because $5 \times 2 = 10$ Frank: divide $6+2 \cong 3$, because $5 \div 10 = 2$ Max: subtract $10-6=4$, because $10-5=5$
	12. Write 8% as a decimal and a fraction reduced to lowest terms.	13. Write 0.31 as a percent and fraction.
F	$\frac{87}{100} = \frac{2}{25}$	31% 31 100
	decimal fraction 14. A baseball player got a hit 2 out of every 5	percent fraction 15. Your family's dinner bill came to \$55 with tax. If
	times he was at bat. Write $\frac{2}{5}$ as a percent.	you wanted to leave a 15% tip how much should you leave for the tip?
	2 20 (40)	you leave for the tip?
	5 x20 100	100x = 825 X=8.25
	16. A house you wish to buy costs \$140,000. The bank requires a 20% down payment for a	17. Everyone in Science has a project. Of the 30 students 40% have completed their project.
	loan. How much money do you need for the	How many students still need to finish their project?
_	down payment? x 1400 x 20 - 28,000	40 = X X=12 completed
	100 ×1400 140,000	100 30 30 30 18 still need to
		100 Finish
	18. * Select ALL of the expressions that equal a c	
	A 42 × 200 B 0.42 × 200	$\begin{pmatrix} C \end{pmatrix} \frac{42}{100} \times 200 \qquad \qquad D \frac{0.42}{100} \times 200$
	8400 84.00	.84
	<u>42</u> =	$=\frac{x}{x^{200}} \times = 84$