## Adv Math 6 - Unit 2: Ratios, Rates, Proportions Name:

End of Unit Test Study Guide

Class Period: 1 2 3 4 Date: \_\_\_\_\_

Answer the following questions. You may use a separate sheet of paper, but your questions must be numbered and final answers must be circled or boxed in. Show ALL work to get full credit.

1)	) What is the difference between a rate and a unit rate?					2) Is $\frac{12}{18} = \frac{5}{8}$ a proportion? Why or why not? How do you know?						
3)	Fill in the missing values in the ratio table:				4) 19 is 20% of what number?							
-,		5	15		100	]	.,	,.				
		5	15	07	100	-						
			9	27								
5)	Find	30% of 4	00.				6) Determine the missing value: $\frac{25}{2} = \frac{x}{2}$					
											15 9	
7)	\\/rito	the rote		sit rata (ir			0) 1		10000 0 A E		E la quira d	
/)	\$31.5	50 for 9 ti	ickets	iii raie (ir	nciuding	g units):	drove 427 miles in 7 hours.					
						Who drove at the fastest rate of speed?						
						Justify your answer:						
9) Ephraim the Snake is 3 feet long. Asia the Fish				10) The table below shows the number of tickets								
	is 49 inches long.				sold for each movie.							
	How much longer is Asia than Ephraim?				What does the ratio 5:3 represent?							
								ltem	Avenaers	Thor	Captain	Spider
							Quanti	12	15	America 30	Man 18	
						ty Sold	12	10		10		

11) r If	The table below show numbers of meals at the ratio stays the so	vs the cost for varying a local restaurant. ame, determine the	12) The ratio of red to blue socks in a drawer is 8:12. If there are 80 socks in the drawer, how many are blue?			
v	Number of Meals Cost					
	3	\$36				
	5	\$60				
	12	\$144				
	20	n				
10)						
13) r (	Inere are 80 people restaurant. If 25% of t order an eggroll, <u>how</u> order an eggroll?	eating in a Chinese hese people did <u>NOT</u> <u>, many people did</u>	If this was 20% of his paycheck, how much was his paycheck?			
15)	Mrs. Katz is saving for She needs to save \$3	a beach vacation. ,500.	<ul><li>16) The prices of 3 different bottles of salad dressing are given in the table.</li><li>Which size bottle is the BEST value, according to the price per ounce?</li></ul>			
	f she has only saved now much has she sc	30% of that amount, aved?				
			Size Price			
			20 oz. \$4.20			
			15 oz. \$2.25			
			5 oz. \$0.90			
17) - I I I	To make Tennessee ( mix 2 parts of red pai oaint. If you have 13 many oz of yellow po	Drange, you need to nt with 4 parts of yellow oz of red paint, how aint do you need?	18) Fifty liters of fruit punch were served at a party. If there are 1000 liters in a kiloliter, how many kiloliters were served?			
19)	If you spend \$30 on c eave a 20% tip for go would your total bill b	dinner out and want to bod service, what be?	20) If a store sells a shirt for \$16 and you have a 20% off coupon, how much would you pay for the shirt before taxes?			

## Adv Math 6 - Unit 2: Ratios, Rates, Proportions Name:

End of Unit Test Study Guide **ANSWER KEY** 

Class Period: 1 2 3 4 Date: \_\_\_\_\_

Answer the following questions. You may use a separate sheet of paper, but your questions must be numbered and final answers must be circled or boxed in. Show ALL work to get full credit.

	ty Sold 12 15 30 18 None				
13 inches longer	ItemAvengersThorCaptain AmericaSpider ManQuanti10152010				
How much longer is Asia than Ephraim?	What does the ratio 5:3 represent?				
y) Ephraim the Snake is 3 teet long. Asia the Fish is 49 inches long.	10) The table below shows the number of tickets sold for each movie.				
	an hour than Donika.				
\$3.50 for one ticket	Who drove at the fastest rate of speed?				
\$3.50 per ticket or					
<ul> <li>/) Write the rate as a unit rate (including units): \$31.50 for 9 tickets</li> </ul>	8) Maren drove 245 miles in 3.5 hours. Donika drove 427 miles in 7 hours.				
120	X = 15				
5) Find 30% of 400.	6) Determine the missing value: $\frac{25}{15} = \frac{x}{25}$				
<b>3</b> 9 27 <b>60</b>	95				
5 15 <b>45</b> 100					
3) Fill in the missing values in the ratio table:	sums.				
Unit rates require that one of the units be 1.	No, they don't simplify down to the same ratio and if you cross multiply, you get different				
<ol> <li>What is the difference between a rate and a unit rate?</li> </ol>	2) Is $\frac{12}{18} = \frac{5}{8}$ a proportion? Why or why not? How do you know?				

11) The table below show numbers of meals at If the ratio stays the so	ws the cost for varying a local restaurant. ame, determine the	12) The ratio of red to blue socks in a drawer is 8:12. If there are 80 socks in the drawer, how many are blue?					
Number of Meals	Number of Meals Cost			48 blue socks in the drawer.			
3	\$36						
5	\$60						
12	\$144						
20	n <b>= \$240</b>						
	· ·						
<ul> <li>13) There are 80 people restaurant. If 25% of t order an eggroll, <u>hov</u> order an eggroll?</li> <li>60 people did or</li> </ul>	eating in a Chinese hese people did <u>NOT</u> v many people did rder an eggroll.	<ul> <li>14) David deposited \$312 in the bank last week. If this was 20% of his paycheck, how much was his paycheck?</li> <li>His paycheck was \$1560.</li> </ul>					
15) Mrs. Katz is saving for She needs to save \$3	<ol> <li>Mrs. Katz is saving for a beach vacation.</li> <li>She needs to save \$3,500.</li> </ol>			<ol> <li>The prices of 3 different bottles of salad dressing are given in the table.</li> </ol>			
If she has only saved how much has she so	30% of that amount, aved?	Which size bottle is the BEST value, according to the price per ounce?					
		312e	00 M	The 15 oz.			
She save	d \$1050.	20 02.	.¢4.20	Bottle is the			
		15 oz.	\$2.25	better deal.			
		5 oz.	\$0.90				
17) To make Tennessee ( mix 2 parts of red pai paint. If you have 13 many oz of yellow pa	18) Fifty liters of fruit punch were served at a party. If there are 1000 liters in a kiloliter, how many kiloliters were served?						
You would need 26	oz of yellow paint.	0.05 kL were served.					
19) If you spend \$30 on a leave a 20% tip for ga would your total bill k	dinner out and want to ood service, what be?	20) If a store sells a shirt for \$16 and you have a 20% off coupon, how much would you pay for the shirt before taxes?					
Your total bill v	vould be \$36.		You would	l pay \$12.80.			