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End of Unit Test Study Guide
Class Period: 1234 Date: $\qquad$
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 |  |  |  |  |  |
|  |  | 9 | 27 |  |  |  |  |  |  |
| 5) Find $30 \%$ of 400. |  |  |  |  | 6) Determine the missing value: $\frac{25}{15}=\frac{x}{9}$ |  |  |  |  |
| 7) Write the rate as a unit rate (including units): $\$ 31.50$ for 9 tickets |  |  |  |  | 8) Maren drove 245 miles in 3.5 hours. Donika drove 427 miles in 7 hours. <br> Who drove at the fastest rate of speed? <br> Justify your answer: |  |  |  |  |
| 9) Ephraim the Snake is 3 feet long. Asia the Fish is 49 inches long. <br> How much longer is Asia than Ephraim? |  |  |  |  | 10) The table below shows the number of tickets sold for each movie. <br> What does the ratio 5:3 represent? |  |  |  |  |
|  |  |  |  |  | Item | Avengers | Thor | Captain America | Spider Man |
|  |  |  |  |  | $\begin{aligned} & \text { Quanti } \\ & \text { ty Sold } \end{aligned}$ | 12 | 15 | 30 | 18 |


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End of Unit Test Study Guide ANSWER KEY

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| 11) The table below shows the cost for varying numbers of meals at a local restaurant. <br> If the ratio stays the same, determine the value of $n$. | 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? <br> 48 blue socks in the drawer. |
| :---: | :---: |
| 13) There are 80 people eating in a Chinese restaurant. If $25 \%$ of these people did NOT order an eggroll, how many people did order an eggroll? <br> 60 people did order an eggroll. | 14) David deposited $\$ 312$ in the bank last week. If this was $20 \%$ of his paycheck, how much was his paycheck? <br> His paycheck was $\$ 1560$. |
| 15) Mrs. Katz is saving for a beach vacation. She needs to save \$3,500. <br> If she has only saved $30 \%$ of that amount, how much has she saved? <br> She saved \$1050. | 16) The prices of 3 different bottles of salad dressing are given in the table. <br> Which size bottle is the BEST value, according to the price per ounce? <br> The 15 oz . <br> Bottle is the better deal. |
| 17) The weight of a rhinoceros is 8 kg . If there are 1000 grams in a kilogram, how many grams does the rhinoceros weigh? <br> The rhinoceros weighs 8000 g . | 18) Fifty liters of fruit punch were served at a party. If there are 1000 liters in a kiloliter, how many kiloliters were served? <br> 0.05 kL were served. |
| 19) If you spend $\$ 30$ on dinner out and want to leave a $20 \%$ tip for good service, what would your total bill be? <br> Your total bill would be $\$ 36$. | 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? <br> You would pay \$12.80. |

