RATIOS, RATES, UNIT RATES AND RATIO TABLES STUDY GUIDE

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_

1. Write each scenario as a ratio using labels. Remember to write each ratio in simplest form.
2. Tyson’s math class has 12 boys and 8 girls. Write the ratio of girls to boys.
3. At a bake sale, 15 cookies and 40 brownies were sold. Write the ratio of cookies sold to brownies sold.
4. The jewelry store is having a sale on 25 emerald rings and 15 ruby rings. Write the ratio of ruby rings to emerald rings.
5. In a bouquet of flowers, there are 6 roses, 5 carnations, 3 lilies, and 7 daisies. Write the ratio of roses to total flowers in the bouquet.
6. Of the 24 sandwiches on the table, 9 of them were burgers. Write the ratio of burgers to total sandwiches.
7. Write each phrase as a Rate (first) and then determine Unit Rate (second).

 \*\* Remember Unit Rate always has a denominator of 1 \*\*

1. $42 for 7 books
2. $6 for 8 packs of gum
3. $216 for 18 hours of work
4. 120 miles in 8 weeks
5. 79.8 miles on 3 gallons of gas
6. Use Rates & Unit Rates to determine which is the better deal. Circle your answer !!

 \*\* Remember to round to the nearest hundredth if you have a decimal \*\*

1. $12 for 3 paperback books; $28 for 7 paperback books
2. 25 gumballs for $3.50; 30 gumballs for $4.50
3. 96 words typed in 3 minutes; 160 words typed in 5 minutes
4. $3 for 6 bagels; $9 for 24 bagels
5. 288 miles on 12 gallons of fuel; 240 miles on 10 gallons of fuel
6. $22 for 2 new-release CDs; $40 for 4 new-release CDs
7. $24 saved after 3 weeks; $52 saved after 7 weeks
8. 60 pages read in 3 days; 90 pages in 6 days
9. Use the ratio table to answer each question. Remember, you may use the blank boxes to simplify a ratio in order to complete the table.
10. The ratio of cats to dogs seen by a veterinarian in one day is 2 to 5. If a vet saw 40 dogs in one day, how many cats did he see?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CATS |  2 |  |  |  |
| DOGS |  5 |  |  |  40 |

1. It takes 2 cups of whole wheat flour to make 10 dog biscuits. How many cups of flour are required to make 35 dog biscuits?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cups of whole wheat flour |  2 |  |  |  |
| Dog biscuits |  10 |  |  |  35 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # of dishes |  6 |  |  |  15 |
| minutes |  4 |  |  |  |

1. Charlie washes 6 dishes in 4 minutes. At this rate, how long will it take him to wash 15 dishes?
2. On a bike trip across the country, Kerry rides 180 miles every 4 days. If he continues at this same rate, how far could he bike in 6 days?

|  |  |  |  |
| --- | --- | --- | --- |
| miles |  |  |  |
| days |  |  |  |

1. If a 16-ounce hummingbird feeder can feed 80 hummingbirds in a day, how many hummingbirds would you be able to feed with a 12-ounce feeder?

|  |  |  |  |
| --- | --- | --- | --- |
|  # of ounces  in feeder |    |  |   |
|  # of birds fed |   |  |  |