**Proportional Reasoning Review**

**Knowledge and Understanding**

1. What is a ratio?
2. What is a rate?
3. What is a unit rate?
4. What is a percent?

**Proficiency of Skills**

5. Fill in the ratio table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 9 | 18 |  |  | 45 |
|  |  |  |  |  |
| 12 |  | 36 | 48 |  |
|  |  |  |  |  |

1. 80 is 25% of what number? \_\_\_\_\_\_\_\_\_\_
2. Find 30% of 70. \_\_\_\_\_\_\_\_\_\_



1. Write the ratio as a unit rate: $27 for 9 tickets. \_\_\_\_\_\_\_\_\_\_

**Application**

1. Jaden drove 260 miles in 4 hours. Jada drove 210 miles in 3 hours. Who drove at the fastest rate of speed? How do you know?
   1. Who drove the fastest? \_\_\_\_\_\_\_\_\_\_
   2. How do you know?
2. A circus elephant is going to stand on a ball. Lulu the Elephant weighs 2 Tons. If the ball can hold up to 3,000 pounds, will Lulu make it? Explain your answer.
3. The table below shows the number of each item sold at the concession stand. What might the ratio 3:4 represent?

|  |  |
| --- | --- |
| Item | Quantity Sold |
|  |  |
| Popcorn | 20 |
|  |  |
| Nachos | 15 |
|  |  |
| Hot Dog | 25 |
|  |  |
| Candy Bar | 30 |
|  |  |

1. The ratio of boys to girls in a class is 4:8. If there are 24 students in the class, how many are boys?
2. In a class of 40 students, 30% DID return their permission slips for the school field trip. How many students did NOT return their permission slips?
3. The table below shows the cost for varying number of books. If the rate stays the same, determine the value of *n*.

|  |  |
| --- | --- |
| Number of | Cost |
| Books |
|  |
| 6 | $24 |
|  |  |
| 10 | $40 |
|  |  |
| 12 | *$48* |
|  |  |
| 20 | N |
|  |  |

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