Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_ Core:\_\_\_\_

Proportional Relationships in Tables

**Determine if the table is proportional. If proportional, determine the unit rate. If not proportional, write N/A for the unit rate.**

|  |  |
| --- | --- |
| **Cost**  **(dollars)** | **Days** |
| 3 | 1 |
| 6 | 2 |
| 9 | 3 |
| Proportional? \_\_\_\_\_ | |
| Unit Rate:  \_\_\_\_\_\_\_\_\_\_ | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time (minutes)** | 0 | 1 | 4 | 7 |
| **Calories Burned** | 0 | 11 | 44 | 77 |
| Proportional? \_\_\_\_\_ | | | | |
| Unit Rate: \_\_\_\_\_\_\_\_\_\_ | | | | |

|  |  |
| --- | --- |
| **Time (hours)** | **Snowfall  (inches)** |
| 2 | 10 |
| 2.5 | 5 |
| 6 | 12 |
| Proportional? \_\_\_\_\_ | |
| Unit Rate:  \_\_\_\_\_\_\_\_\_\_ | |

1. 2. 3.

**Determine the missing values with the given tables of proportional relationships. Then write an equation to represent the situation.**

4. A recipe that yields 14 cups of pudding calls for 28 ounces of mile. Fill in the missing values in the table. Then determine the unit rate and write an equation relating the cups of pudding (p) to the ounces of milk (m).

|  |  |  |  |
| --- | --- | --- | --- |
| **Number of Cups of Pudding** | 1 | 14 |  |
| **Ounces of Milk** |  | 28 | 36 |

Unit Rate: Equation:

5. At Books Unlimited, 4 paperback books cost $16. Fill in the missing values in the table. Then determine the unit rate and write an equation relating the books purchased (b) to the cost in dollars (c).

|  |  |
| --- | --- |
| **Number of Books** | **Cost (dollars)** |
| 4 | $16 |
| 5 |  |
|  | $48 |
| 1 |  |

Unit Rate:

Equation:

6. Kayla made observations about the selling price of a new brand of coffee that sold in three different sized bags. Fill in the missing values in the table. Then determine the unit rate and write an equation relating the ounces of coffee (c) and the cost in dollars (d).

|  |  |  |  |
| --- | --- | --- | --- |
| **Coffee (ounces)** | 6 | 8 |  |
| **Price (dollars)** | 2.10 |  | 5.60 |

Unit Rate: Equation:

7. The table below shows the relationship between side lengths of a regular octagon and its perimeter. Fill in the missing values in the table. Then determine the unit rate and write an equation relating the side lengths (s) and perimeter (p).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Side lengths (inches)** |  | 3 | 4 |  | 12 |
| **Perimeter (inches)** | 8 | 24 |  | 72 |  |

Unit Rate: Equation: