**Math 6 - Unit 2: Rates, Ratios & Proportions** Name:

*Mid-Unit Test Review*  Class Period: 1 2 3 4 Date:

**Vocabulary:** For numbers 1-3, write each definition.

1) A ratio is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) A rate is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3) A unit rate is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solve the following ratio problems.**

4a) \_\_\_\_\_\_\_\_\_\_ What is the ratio of circles to squares?

 b) Circle one: Is this ratio ***part-to-part***or ***part-to-whole***?

5a) \_\_\_\_\_\_\_\_\_\_ What is the ratio of circles to ALL shapes?

 b) Circle one: Is this ratio ***part-to-part***or ***part-to-whole***?

6a) \_\_\_\_\_\_\_\_\_\_\_ What is the ratio of triangles to circles and squares?

 b) Circle one: Is this ratio ***part-to-part***or ***part-to-whole***?

**Solve for the missing values in the ratio tables.**

|  |  |  |  |
| --- | --- | --- | --- |
| 15 |  |  | 150 |
| 3 | 12 | 18 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 6 |  |  | 66 |
| 8 | 12 | 48 |  |

7) 8)

|  |  |  |  |
| --- | --- | --- | --- |
| 2 |  | 20 |  |
| 1 | 7 |  | 15 |

9) 10)

|  |  |  |  |
| --- | --- | --- | --- |
| 5 | 25 |  | 60 |
| 3 |  | 30 |  |

11) 12)



**Solve the following unit rate problems. Show your work!**

13)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Jordan spent $96 for 12 pizzas for a party. What is the unit rate?

14) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Skylar spent $72 on 8 pizzas for a party. What is the unit rate?

15) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ In numbers 13-14 above, who got the “better deal?”

***Use the table to answer #16***

|  |  |  |
| --- | --- | --- |
| **Racecar****Driver** | **Rate** | **Unit Rate****(miles per hour)** |
| Mrs. Ledesma | 900 miles/15 hours |  |
| Mrs. Bothers | 420 miles/6 hours |  |

16) a.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What was Mrs. Ledesma’s unit rate, in miles per hour?

 b.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What was Mrs. Bothers’s unit rate, in miles per hour?

 c. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Who traveled faster?

**Ratios & Rates**

17) \_\_\_\_\_\_\_\_\_\_\_\_ Write the letter of the pair that is **NOT** an equivalent ratio.

 a)  b)  c)  d) 

**Math 6 - Unit 2: Rates, Ratios & Proportions**  **KEY**

*Mid-Unit Test Review*

**Vocabulary:** For numbers 1-3, write each definition.

1) A ratio is **a comparison of two numbers.**

2) A rate is **a ratio that compares quantities measured in different units.**

**3) A unit rate is **a ratio of two measurements in which the denominator is 1.**

**Solve the following ratio problems.**

4a) **1 to 1** What is the ratio of circles to squares?

 b) Circle one: Is this ratio ***part-to-part***or ***part-to-whole***?

5a) **3 to 7** What is the ratio of circles to ALL shapes?

 b) Circle one: Is this ratio ***part-to-part***or ***part-to-whole***?

6a) **1 to 6** What is the ratio of triangles to circles and squares?

 b) Circle one: Is this ratio ***part-to-part***or ***part-to-whole***?

**Solve for the missing values in the ratio tables.**

|  |  |  |  |
| --- | --- | --- | --- |
| 15 | **60** | **90** | 150 |
| 3 | 12 | 18 | **30** |

|  |  |  |  |
| --- | --- | --- | --- |
| 6 | **9** | **36** | 66 |
| 8 | 12 | 48 | **88** |

7) 8)

|  |  |  |  |
| --- | --- | --- | --- |
| 2 | **14** | 20 | **30** |
| 1 | 7 | **10** | 15 |

9) 10)

|  |  |  |  |
| --- | --- | --- | --- |
| 5 | 25 | **50** | 60 |
| 3 | **15** | 30 | **36** |

11) 12)



**Solve the following unit rate problems. Show your work!**

13)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Jordan spent $96 for 12 pizzas for a party. What is the unit rate?

 **$8 per pizza**

14) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Skylar spent $72 on 8 pizzas for a party. What is the unit rate?

  **$9 per pizza**

15) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ In numbers 13-14 above, who got the “better deal?”

 **Jordan**

***Use the table to answer #16***

|  |  |  |
| --- | --- | --- |
| **Racecar****Driver** | **Rate** | **Unit Rate****(miles per hour)** |
| Mrs. Ledesma | 900 miles/15 hours |  |
| Mrs. Bothers | 420 miles/6 hours |  |

16) a. **60 miles per hour** What was Mrs. Ledesma’s unit rate, in miles per hour?

 b. **70 miles per hour** What was Mrs. Bothers’s unit rate, in miles per hour?

 c. **Mrs. Bothers** Who traveled faster?

**Ratios & Rates**

17) \_\_\_\_\_\_\_\_\_\_\_\_ Write the letter of the pair that is **NOT** an equivalent ratio.

 a)  b)  **c) ** d) 