**Prime Time REVIEW**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_\_\_

**Prime or composite:** Label each number as **P** (prime) or **C** (composite)

1. 26: \_\_\_\_\_\_\_\_\_\_\_\_
2. 51: \_\_\_\_\_\_\_\_\_\_\_\_
3. 31: \_\_\_\_\_\_\_\_\_\_\_\_
4. 13: \_\_\_\_\_\_\_\_\_\_\_\_
5. 29: \_\_\_\_\_\_\_\_\_\_\_\_
6. 81: \_\_\_\_\_\_\_\_\_\_\_\_
7. 105: \_\_\_\_\_\_\_\_\_\_\_\_
8. 0: \_\_\_\_\_\_\_\_\_\_\_\_

**Prime factorization:** Find the Prime Factorization of each number

1. 144
2. 36
3. 81

**Factors:** Find **ALL factors** of each number

1. 48: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 18: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 26: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 100: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. 25: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. 23: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Multiples:** Find the **first 10 multiples** of each number

1. 10: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 8: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 20: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 9: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. 4: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. 12: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Greatest common factor (\_\_\_\_\_\_\_\_\_\_):** Find the Greatest Common Factor for both numbers

**\*\* Remember: Venn Diagram, Factor Towers or Factor Ladders \*\***

1. **72 and 36**

GCF: \_\_\_\_\_

1. **24 and 32**

GCF: \_\_\_\_\_

1. **144 and 96**

GCF: \_\_\_\_\_

1. **64 and 74**

GCF: \_\_\_\_\_

**Least common multiple (\_\_\_\_\_\_\_\_\_\_)**

1. **12 and 8**

LCM: \_\_\_\_\_

1. **11 and 9**

LCM: \_\_\_\_\_

1. **4 and 6**

LCM: \_\_\_\_\_

1. **10 and 8**

LCM: \_\_\_\_\_

**Mixed review:** Read CAREFULLY to determine what the question is asking you

1. **100 and 40**

GCF: \_\_\_\_\_

1. **8 and 14**

LCM: \_\_\_\_\_

1. What number has the prime factorization of $$3^{3}$$

x $$2^{3}$$

? \_\_\_\_\_\_\_\_\_

**\*\* Bonus \*\*(YES, you MUST TRY THEM!!)**

1. Rachel is making party favors for her guests. She has 24 fire balls, 36 jelly beans and 60 starbursts. What is the **GREATEST** number of bags that she can make? How many of **EACH** candy will she put in each bag?
2. There are 2 different ferris wheels at the Cabbarrus County Fair. One ferris wheel takes 60 seconds to make a full rotation and the other ferris wheel takes 15 seconds to make a full rotations. If two people get on at the same time, how long will it take for both people to be at the bottom of the ferris wheels at the same time?