

Pre-Algebra

Name: _____

Period: _____ Date: _____

Write the Prime Factorization for each number. **SHOW YOUR WORK!**

Example: $18 = 2 \cdot 3 \cdot 3 = 2 \cdot 3^2$

1) $24 =$ _____

2) $200 =$ _____

3) $369 =$ _____

Find each GCF (Greatest Common Factor). **SHOW YOUR WORK!**

Example:

4) $45 =$ _____

$90 =$ _____

GCF = _____

5) $12x^4y^3 =$ _____

$27x^3y^2 =$ _____

GCF = _____

6) $48 =$ _____

$80 =$ _____

$128 =$ _____

GCF = _____

Write each fraction in Simplest Form. Show work!

7. $\frac{6}{12}$

8. $\frac{10}{15}$

9. $\frac{24}{30}$

10. $\frac{30}{70}$

11. $\frac{x^4 y^5}{x^2 y^2}$

12. $\frac{a^2 b^2 c^3}{abc}$

13. $\frac{20x^7}{5x^4}$

14. $\frac{12h^3 k}{16h^2 k^2}$

15. $\frac{30x^3 y^4 z^2}{54x^2 y^2 z^3}$