

October 20, 2015  
 \* Quiz # 9 - Tomorrow  
 5.5 & 5.6

Oct 20-9:02 AM

①  $\left\{ \begin{array}{l} 18 = 1, 2, 3, 6, 9 \\ 24 = 1, 2, 3, 4, 6, 8, 12 \end{array} \right.$   
 ②  $\left\{ \begin{array}{l} 18 = 2 \cdot 3 \cdot 3 \\ 24 = 2 \cdot 2 \cdot 2 \cdot 3 \end{array} \right\} 2 \cdot 3 = 6$

Oct 20-9:09 AM

Factoring  
 ① Determining the GCF  
 ② Factor out the GCF of an expression.  
 $18y^5 - 24y$   
 $\left\{ \begin{array}{l} \text{GCF}(18, 24) = 6 \\ \text{GCF}(y^5, y) = y \\ \text{GCF}(18y^5, 24y) = 6y \end{array} \right.$   
 $6y(3y^5 - 4)$   
 $\frac{18y^5}{6y} = 3y^4$   
 $\frac{24y}{6y} = 4$   
 $\frac{2 \cdot 3 \cdot 3}{2 \cdot 2} = 3$   
 $\frac{y \cdot y \cdot y \cdot y \cdot y}{y} = y^4$   
 $3y^4$   
 ③ Check  
 $(6y)(3y^4) = 18y^5$

Oct 20-9:15 AM

Check  
 $6y(3y^5 - 4)$   
 $18y^6 - 24y$  ✓

Oct 20-9:30 AM

$ab + ac = a(b+c)$   
 $\text{GCF}(ab, ac) = a$

Oct 20-9:20 AM