

Name: \_\_\_\_\_ Class: \_\_\_\_\_

Factor each expression.

**A**  $a^2b - ab^3 =$  \_\_\_\_\_

**B**  $15x^3y + 35x^2y =$  \_\_\_\_\_

**C**  $84f^2g - 54f^5 =$  \_\_\_\_\_

For fractions, factor the numerator and denominator...

$$\frac{2x + 4}{6x + 12} = \frac{2(x + 2)}{6(x + 2)}$$

Then divide common factors from the top and bottom...

$$\frac{\cancel{2}(x+2)}{\cancel{6}(x+2)} = \frac{1}{3}$$

2 over 6 = 1 over 3. Notice, (x + 2) over (x + 2) = 1,  
so the common terms cancel out.

**D**  $\frac{12m+18}{3} =$  \_\_\_\_\_  $=$  \_\_\_\_\_

**E**  $\frac{28a^2b-49a}{14a} =$  \_\_\_\_\_  $=$  \_\_\_\_\_

**F**  $\frac{64x^5y^3z^2+40x^2y}{8x^2y} =$  \_\_\_\_\_  $=$  \_\_\_\_\_

**G**  $\frac{55t^2u-35tu^2}{33tv-21uv} =$  \_\_\_\_\_  $=$  \_\_\_\_\_