

## Answers to Factoring Worksheet:

1.  $-16x^2(x^2 + 2x + 5)$

2.  $2x^4(7x - 12)$

3.  $x(x^2 + 3)$

4.  $-43x(x - 9)$

5.  $-3x^3(2x^2 - 1)$

6.  $12x(8x^2 - 4x + 5)$

7.  $33x(x + 11)$

8.  $-3x^4(x^2 - 5)$

9.  $(x-11)(x+8)$

10.  $(x-12)(x-4)$

11.  $(x+6)(x+5)$

12.  $(x-3)(x-11)$

13.  $(x+6)(x-5)$

14.  $(x-10)(x+7)$

15.  $(x+9)(x-1)$

16.  $(x-5)(x-11)$

It doesn't matter what order  
the factors are written in.

$$17. (3x-14)(x-2)$$

$$18. y^2(3y+1)(5y+7)$$

$$19. (3x+4)(2x+3)$$

$$20. (2y-3)(3y+8)$$

$$21. x^2(8x-2)(3x+2)$$

$$22. \left. \begin{array}{l} 4(2r-3)(2r+1) \\ \text{or} \\ (8r-12)(2r+1) \\ \text{or} \\ (8r+4)(2r-3) \end{array} \right\} \text{all the same}$$

$$23. (2x-5)(2x-5) \text{ or } (2x-5)^2$$

$$24. (4x+3)(x+1)$$