

# Factoring Practice Worksheet

Name: \_\_\_\_\_ Per \_\_\_\_\_

Assignment# \_\_\_\_\_

**Factor each completely.**

(Hint: Only one is Prime)

1.  $24x^2 - 8x$

2.  $9y^2 - 16$

3.  $x^2 - 10x + 16$

4.  $4y^2 - 20y + 25$

5.  $x^2 - 3x - 40$

6.  $2x^2 - 8$

7.  $5a^2 - 42a - 27$

8.  $2x^2 + 8x + 6$

9.  $4a^2 - 4ac - 5c^2$

10.  $12x^2 + 17x + 6$

11.  $14x^2 + 7x - 21$

12.  $6x^2 - 26x - 20$

13.  $x^2 - 14x + 24$

14.  $2a^2 + 7a - 15$

15.  $25 - m^2$

16.  $9y^2 - 30y + 25$

17.  $5h^2 - 2h - 7$

18.  $2x^2 + 12x - 80$

19.  $27x^2 - 36x + 12$

20.  $12x^2 - 75$

**Answers:**

1.  $8x(3x - 1)$

2.  $(3y - 4)(3y + 4)$

3.  $(x - 2)(x - 8)$

4.  $(2y - 5)(2y - 5)$

5.  $(x - 8)(x + 5)$

6.  $2(x - 2)(x + 2)$

7.  $(5a + 3)(a - 9)$

8.  $2(x + 3)(x + 1)$

9. prime

10.  $(3x + 2)(4x + 3)$

11.  $7(2x + 3)(x - 1)$

12.  $2(3x + 2)(x - 5)$

13.  $(x - 12)(x - 2)$

14.  $(2a - 3)(a + 5)$

15.  $(5 - m)(5 + m)$

16.  $(3y - 5)(3y - 5)$

17.  $(5h - 1)(h + 1)$

18.  $2(x + 10)(x - 4)$

19.  $3(3x - 2)(3x - 2)$

20.  $3(2x - 5)(2x - 5)$