

NAME

QUARTER 1

GRADE &amp; SECTION

DATE

## Activity: Factoring Polynomials

Identify the technique to be used in factoring the given polynomials then choose the corresponding factored form in the options below.

### FACTORED FORM

1.  $4x^2 - y^2$

2.  $8y^2 + 12$

3.  $4x^2 - 4xy + y^2$

4.  $x^2 - 15x + 54$

5.  $25y^2 - 16x^2$

6.  $8y^3 + 125x^3$

7.  $125y^3 - 64x^3$

8.  $-7x^3y^3 - 56x^3y^2$

9.  $x^2 - 5x - 36$

10.  $8x^3 - 27y^3$

### ANSWER BANK

$4(2y^2 + 3)$

$-7x^3y^2(y + 8)$

$(5y + 4x)(5y - 4x)$

$(x - 6)(x - 9)$

$(2x + y)(2x - y)$

$(2x - y)(2x - y)$

$(x + 4)(x - 9)$

*prime polynomial*

$(x + 9)(x - 6)$

$(2y + 5x)(4y^2 - 10xy + 25x^2)$

$(5y - 4x)(25y^2 + 20xy + 16x^2)$

$(2x - 3y)(4x^2 + 6xy + 9y^2)$

This is your \_\_\_\_ attempt.  
How well did you do?



Need help!



Just OK!



Splendid

I LEARNED THAT: \_\_\_\_\_