

MasterMath

Factoring Special Products

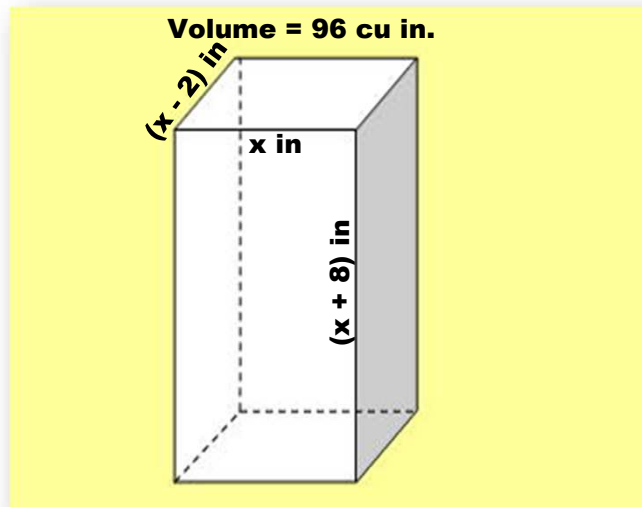
Name _____

Date _____

1. Factor these polynomials completely:

Polynomial	Factor	Factor	Factor
$3x^5 + 3x^4 - 90x^3$			
$3z^5 - 48z^3$			
$12k - 3k^3$			
$80x^8 - 45x^6$			
$s^4 - s^2$			
$7a^3b^3 - 63ab^3$			
$75c^9 - 3c^7$			
$3m^4 + 24m^3 + 48m^2$			
$-4n^3p^3 + 24n^2p^2 - 36np$			
$n^3 - 5n^2 - 4n + 20$			
$32k^4 - 8k^2$			
$2x^3 + 10x^2 - 40 - 8x$			
$z^3 - 81z$			
$x^4 - 100x^2$			
$2y^5 + 2y^4 - 144y^3$			
$x^3 + 2x^2y - x - 2y$			
$8v^3 - 4v^2w - 18v + 9w$			
$4x^2 - x + 12xy - 3y$			

2. Find x:



3. Completely factor:

$$32y^2z - 96xyz + 72x^2z$$

Factor	Factor	Factor