Name:		Date:	
Learning Goal 3.1		Perform combined operations with polynomials.	

Example A cube has edge length 2r + 1. A right square prism with dimensions r by r by 2r + 1 is removed from the cube. Write an expression for the volume that remains. Simplify the expression.

Learning Goal 3.2	Given a number, a set of numbers or a polynomial expression, identify the prime factorization of each element and use it to find the GCF, LCM, perfect squares or cubes and/or factored
	torm.

Example A necklace has 3 strands of beads. Each strand begins and ends with a red bead. If a red bead occurs every 6th bead on one strand, every 4th bead on the second strand and every 10th bead on the third strand, what is the least number of beads each strand can have?

Example A cylindrical bar has base radius r and height h. Only the curved surface of a cylindrical bar is to be painted. Write an expression for the fraction of the total surface area that will be painted. Simplify if possible.