Name:

Date:_____

Use the following to review for you test. Work the Practice Problems on a separate sheet of paper.

	1. Convert 1500g to kg.	2. A bowl of cereal weighs 60 oz. How heavy is it in Ib?
 There are 5280 feet in one mile There are 0.034 ounces in one milliliter There are 0.454 kg in one pound There are 1.6 kilometers in one mile There are 73 gallons in 2 barrels There are 1.05 quarts in one liter There are 4 quarts in one gallon There are 16 ounces in a pound. 		4. You are in a car that is traveling at 65 mph. How fast is it traveling in feet per second?
		6. Today is Katie's 21st birthday, how old would she be in minutes?
‡ of terms Coefficients Factors Constants	7. How many terms are in the expression 12x ³ + 7x ² – 4x –19?	8. What are the terms, coefficients, and constants in the expression 20x ⁴ – 11x +3?
out the pairs! on outside wers on inside ing and racting: Simplify, only add or ract like terms ne radicand) iplying: Outside s Outside, Inside	9. $4\sqrt{98p^2}$ 11. $x\sqrt{72} - x\sqrt{18} + 5x\sqrt{2}$	10. $3\sqrt{2} \cdot 5\sqrt{7}$ 12. $\sqrt{30} \cdot \sqrt{12}$
	es in one one pound ers in one n 2 barrels in one liter one gallon in a pound. of terms Coefficients actors Constants but the pairs! on outside vers on inside ng and racting: Simplify, only add or act like terms he radicand) plying: Outside	es in oneinches.one pound ers in oneinches.n 2 barrels in one liter one gallon in a pound.5. Convert 60 liters to milliliters.r of terms coefficients actors constants7. How many terms are in the expression $12x^3 + 7x^2 - 4x - 19$?vot the pairs! on outside vers on inside in g and racting: Simplify, only add or act like terms he radicand)9. $4\sqrt{98p^2}$ 11. $x\sqrt{72} - x\sqrt{18} + 5x\sqrt{2}$

GSE Algebra I		l	Jnit 1 Final Exam Study Guide
Polynomials	 Adding: Combine Like Terms (Only add the coefficients) Subtracting: Distribute the negative then combine like terms Multiplying: Box Method or FOIL (Multiply the coefficients and add the exponents 	13. $(10x^2 - 4x + 2) + (3x^2 + x)$ 15. $(x^2 + 2x - 3) - (6x^2 + 7x - 8)$ 17. $2x^2(4x^2 - 5x + 3)$	14. (3x ² - 6x + 2) - (4x ² - 2x + 9) 16. (x + 4)(x - 3) 18. (2m - 3) ²
Rational vs. Irrational	 Rational #: Anything that can be written as a fraction Irrational #: Non- perfect square roots, non- repeating & non- terminating decimals, anything with π 	Decide whether the following is Rational or Irrational. 20. $\frac{2}{3}$	19. 4√50 21. 0.66
		22. $5\pi - 3$	23. 2.35497
Sum of Rational and Irrationals	Determine if the following are always true, sometimes true, never true.	24. The sum of two rational numbers is irrational	25. The product of two irrational numbers is rational.
Radicals and Polynomials Applied		26. Rachel is building a rectangular garden that is (3x – 8) units long and (2x+3) units wide. What algebraic expression would represent the AREA of the garden?	27. Using the same information from #24. What expression would represent the PERIMETER of the garden?
		28. Find the area of the unshold $(x + 2)$ (x + 3) $2x$	aded region.