

**FMPC 10**

**REVIEW CHART FOR THE CLASSIFICATION OF NUMBERS, EXPONENT LAWS AND PRIME FACTORIZATION TEST**

I can ...	Example/notes/textbook pages	I got this 😊	I need to work on this!!!
...apply the proper order of operations to evaluate or simplify algebraic expressions with brackets with and without exponents.	$\left(\frac{3xz^2}{27x^5}\right)^4$		
...apply the proper order of operations to evaluate or simplify algebraic expressions with multiple brackets with and without exponents.	$\left(\frac{(5xy^2)^3}{35xy^4}\right)^{-2}$		
...apply the proper order of operations to evaluate or simplify algebraic expressions without brackets with and without exponents.	$\frac{3}{8}aa^4b^7 \div 4a^2b^{-11}$		
... explain the difference between evaluating an expression and simplifying the expression.			
... apply the product exponent law.			
... apply the quotient exponent law.			

I can ...	Example/notes/textbook pages	I got this 😊	I need to work on this!!!
... apply the power exponent law.			
... apply the exponent law of a product.			
... apply the exponent law of a quotient.			
... evaluate or simplify an expression that is raised to the power of zero.			
... evaluate or simplify an expression that is raised to the power of one.			
... change an expression with a negative exponent to an expression with a positive exponent. This expression may or may not be a fraction.			

I can ...	Example/notes/textbook pages	I got this 😊	I need to work on this!!!
...determine whether a given number is real or not real.			
... determine whether a given number is rational or irrational.			
... determine whether a given number belongs in the set of integers.			
... determine whether a given number is a whole number.			
... determine whether a given number belong in the set of natural numbers.			
... classify any given number; that is I can determine all the sets or groups a numbers belongs in.			
... define a rational number.			

I can ...	Example/notes/textbook pages	I got this 😊	I need to work on this!!!
... give 10 examples of irrational numbers.			
... give 10 examples of rational numbers.			
... give 10 examples of numbers that are not real.			
... give 10 examples of real numbers.			
... give 10 examples of natural numbers.			
... give 10 examples of integers.			
... give 10 examples of whole numbers.			
... give 10 examples of nonterminating decimals that are non-repeating.			
... give 10 examples of repeating decimals.			

I can ...	Example/notes/textbook pages	I got this ☺	I need to work on this!!
... give 10 examples of terminating decimals.			
... prime factorize any natural number using a prime factorization tree.			
... , without using a calculator, determine whether a number is divisible by 2.			
... , without using a calculator, determine whether a number is divisible by 3.			
... , without using a calculator, determine whether a number is divisible by 5.			
... use prime factorization to find the LCM of any pair or group of numbers.			
... use prime factorization to find the GCF or any pair or group of numbers.			

I can ...	Example/notes/textbook pages	I got this 😊	I need to work on this!!!
... use prime factorization to determine whether a given number is a perfect cube number.			
... use prime factorization to determine whether a number is a perfect square number.			
..., using my own words, state the fundamental theorem of arithmetic.			
... define a perfect square number.			
... define a perfect cube number			
... clearly identify the base in an expression that has an exponent.			
... give examples of algebraic expressions that have more than one base.			

I can ...	Example/notes/textbook pages	I got this 😊	I need to work on this!!!
... name prime numbers that are between 0 and 100 or quickly determine if any number between 0 and 100 is prime (calculator permitted).			
... define a prime number.			
... explain why 0 and 1 are not prime numbers.			
... explain how the power of two and square root relate to one another.			
... explain the difference between exponentiation and taking a square or cubic root.			
... solve all questions in the Math 9 review booklet. If I cannot solve a question, I seek help from my peers or teachers.			
... honestly say that I have tried my best when completing all assigned work.			
... honestly say that I have studied and practiced to prepare myself for this test.			
... honestly say that I am prepared to do my best.			

