MPM 1D Chapters 1 - 3 Exam Review

<u>Chapter One</u>

Section 1.1	Adding and Subtracting Fractions You must have a common denominator to add and subtract. Work on p. 16 # 5a, 7a
Section 1.2	Multiplying and Dividing Fractions 1. You must change fraction to improper before multiplying or dividing. 2. To divide, multiply by the reciprocal. Work on p. 29 # 7a, 10a
<u>Section 1.3</u>	Order of Operations You must follow BEDMAS Work on p. 35 # 8bd
<u>Section 1.6</u>	Exponents and Rational Numbers 1. $\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$ 2. Follow BEDMAS Work on p. 63 # 6ad

<u>Chapter Two</u>

Section 2.2	Multiplying and Dividing Powers
	1. $(a^m)(a^n) = a^{a+n}$
	2. $(a^m) \div (a^n) = a^{m-n}$
	3. $(ab)^m = a^m b^m$ and $\left(rac{a}{b} ight)^m = rac{a^m}{b^m}$
	Work on p. 89 # 3b, 4a, 9a, 12c
Section 2.3	Power of a Power
	1. $(a^m)^n = a^{mn}$
	2. $\left(\frac{a^m}{b^n}\right)^p = \frac{a^{mp}}{b^{np}}$

Work on p. 96 # 6af, 8e

<u>Section 2.4</u>	Adding and Subtracting Polynomials 1. When adding, drop brackets and combine like terms. 2. When subtracting, change "-" to "+" and the sign of each term in the second bracket. Work on. p. 109 - 110 #5df, 10a, 11c
Section 2.5	Multiplying Terms Multiply the term on the outside of the bracket by everything inside the bracket. Work on p. 117 # 6f, <mark>9a</mark>
Section 2.6	Simplifying Expressions Expand brackets and add like terms. Work on p. 126 # 7ac, <mark>8b</mark>

<u>Chapter Three</u>

Section 3.1	Relations Review: Independent vs. dependent Interpolate vs. extrapolate Work on p. 147# 5
Section 3.2	Exploring Linear Relations Distinguish from a graph and equation the difference between direct and partial variation. Work on p. 151 #1
Section 3.3	Investigating Properties of Linear Relations Know how to calculate first differences and what they tell you. Review the equation of a line and how to solve for slope and y-intercept. Work on p. 156# 7ac, 11cd
Section 3.4	Equivalent Linear Relations Know how to calculate and graph the x- and y-intercept of a given line. Work on p. 170 #4ab
Section 3.5	Linear and Nonlinear Relations Determine whether a relation is linear or non-linear: a) graphically b) calculating the first differences c) noting the degree of the equation. Work on p. 179 #1, <mark>3</mark> , 7a, 8a