Final Exam and EQAO Math Review – Grade 9 Academic and HMST

How to prepare for the EQAO Test and the Final Exam:
- ❑ Complete the questions listed on the outline
- ❑ Complete review and practice materials distributed in class
- ❑ Review your old tests
- ❑ Review your notes from class
- ❑ Review the homework and worksheets you have done throughout the year. Try questions again – particularly questions that you had trouble with before. (THIS is why it is important to keep an organized math binder AND write the question down when you're doing your homework!)
- ❑ Try the Chapter Self-Tests at the end of each chapter for further reinforcements.
- ❑ Ask for help/clarification for any concepts that are unfamiliar or unclear to you (Ms. Juruc will be available at lunch and after school, by appointment. Let her know that you are coming so she can make sure that she's there!)
- ❑ Teach a friend/sibling/family member how to do the math. If you can teach someone, it means you know it quite well.

Specifically for EQAO:
- This test is worth 10% of your final mark as part of your Summative Evaluation.

- The test consists of some multiple choice questions and some short answer questions.

- The test covers the same material you will cover throughout the grade nine year. It is meant to look at how ALL grade nine students across Ontario are doing in math.

- It is NOT meant to be a hard test. However, the format is a bit different from you might be used to so it's important to PRACTICE these types of questions along the way – the review materials you receive in class include REAL EQAO questions from past tests so you know what they are really like.

- You can see past EQAO tests on the EQAO website. What great practice!

- To access past EQAO tests online:
  1) Go to www.eqao.com
  2) Click on ENGLISH
  3) Click on "Student Resources" near the top of the page
  4) Under "Grade 9 Assessment of Mathematics", click on the link that says "Grade 9"
  You will be able to choose tests from different years to view.
  PLEASE REMEMBER: You are in an ACADEMIC math class. Be sure you are looking at ACADEMIC math tests, not the APPLIED version.

You can also direct your parents to look at www.eqao.com to learn more about the test.

Grade 9 Academic Math – Exam Review Outline

Chapter	Topics	Review Questions
1: Rational Numbers	1.1 – Addition and Subtraction of Mixed Numbers	p. 66 #1-5, 7 - 25
	1.2 – Multiplication/Division of Mixed Numbers	
	1.3 – Integer Operations with Powers	
	1.4 – Rational Numbers	
	1.5 – Rational Number Operations	
	1.6 – Powers of Rational Numbers	
2: Powers and Polynomials	2.1 – Representing Powers up to degree 3	p. 101 #3-13
	2.2 – Multiplying/Dividing Powers	p. 133 #2-13
	2.3 – Power of a Power	
	2.4 – Adding/Subtracting Polynomials	
	2.5 – Multiplying a Polynomial by a Monomial	
	2.6 – Simplifying Polynomial Expressions	
3: Linear Relations	3.1 – Relations (Equation, Table of Values, Graph)	p. 163 #2 - 5
	3.2 – Exploring Linear Relations	p. 183 #1 - 11
	3.3 – Investigating Properites of Linear Relations (Rate of Change, Slope)	
	3.4 – Equivalent Linear Relations	
	3.5 – Linear and Nonlinear	
4: Linear Equations	4.1 – Interpreting the Solution of a Linear Equation	p. 210 #1-6, 10-16
	4.2 – Solving Linear Equations	p. 221 #1 – 8, 11-13, 18
	4.3 – Equation Solving Strategies	
	4.4 – Solving for a Variable in a Linear Relation	p. 228 #1 – 7
	4.5 – Solving a Linear System Graphically	p. 250 #1 – 17
5: Analytic Geometry	5.1 - Exploring the Equation of a Line	p. 283 #1 - 13
	5.2 – Different Forms of the Equation of a Line	p. 309 #1 – 7, 9 – 15
	5.3 – Slope of a Line	
	5.4 – Using Points to Determine the Equation of a Line	
	5.5 – Parallel and Perpendicular Lines	
6: Investigating Relationships	6.1 – Interpreting Data	p. 343 #1 - 5
	6.2 – Lines of Best Fit	p. 374 #1- 10
	6.3 – Curves of Best Fit	
	6.4 – Reasoning About Data	
	6.5 – Describing Situations from Graphs	
7: Properties of 2-D Figures	7.1 – Exploring Interior Angles of Polygons	p. 397 #1 - 5
	7.2 – Angle Properties of Polygons	p. 418 #1 – 8, 10 – 12, 15
	7.3 – Exploring Quadrilateral Diagonal Properties	
	7.4 – Reasoning About Triangle and Quadrilateral Properties	
	7.5 – Reasoning About Properties of Polygons	
8: Measurement	8.1 – Determining Optimum Area and Perimeter	p. 460 #1 - 9
	8.2 – Problems Involving Composite Shapes	p. 484 #1 – 25
	8.3 – The Pythagorean Theorem	
	8.4 – Surface Area of Right Pyramids and Cones	
	8.5 – Volumes of Pyramids and Cones	
	8.6 – Volume and Surface Area of a Sphere	
	8.7 – Exploring Optimum Volume and Surface Area	
	8.8 – Optimum Volume and Surface Area	