Grade 8 Study Guide Math Mid-Year Exam

Date: Sunday, December 10th, 2023. **Time:** 8:00 to 9:30.

Duration: 1 hour and 30 minutes.

Study from: Math Reveal Textbook, Math notebook, IXL, Aleks.

Lesson	Торіс	Pages
2-2	Roots	79-90
2-4	Estimate Irrational Numbers	101-110
1-1	Power and Exponents	3-12
1-2	Multiply and Divide Monomials	13-24
1-3	Powers of Monomials	25-32
1-4	Zero and Negative Exponents	33-42
1-5	Scientific Notation	43-54
3-1	Solve Equations with Variables on Each Side	129-136
3-2	Write and Solve Equations with Variables on Each Side	137-144
Types of Questions to expect:		
Multiple choice, calculations, and word problems.		

Keywords: (To be understood, not memorized)

Product:

The answer to a multiplication problem.

Quotient:

The answer to a division problem.

Sum:

The answer to an addition problem.

Difference:

The answer to a subtraction problem.

Exponent:

Refers to how many times a number (base) must be multiplied by itself.

Square Root:

The square root of a number produces the original number when multiplied by itself.

Irrational Numbers:

A real number which cannot be expressed as a ratio of integers.

Rational Number:

A number which can be expressed as a fraction.

Monomials:

A mathematical expression consisting of one term.

Linear Equations:

An equation with a graph that is a straight line.

Variable:

A symbol, usually a letter, used to represent a number in mathematical expressions or sentences.

Negative Exponent:

The result of repeated division used to represent very small numbers.

Zero Exponent Rule:

A rule that states that any nonzero number to the zero power is equivalent to 1.

Scientific Notation:

A compact way of writing numbers that are very large or very small.

Kindly note that calculators are NOT allowed to be used and smart watches should NOT be worn during an exam.