

## Grade 7 Math End of Unit 3 Assessment Study Guide

**Subject:** Math

**Date of Test:** Wednesday, February 19<sup>th</sup>, 2020

**Duration of Test:** 80 Minutes

**You are expected to study from:** All materials mentioned below:

### 1. Textbook/Notebooks:

Chapters	Topic	Pages
5-1	<b>Algebraic Expressions</b> Evaluating algebraic expression	349 – 355
5-3	<b>Properties of Operations</b> Identify and use mathematical properties to simplify algebraic expressions	367 – 373
5-4	<b>The Distributive Property</b> Apply the distributive property to rewrite algebraic expressions	375 – 381
5-5	<b>Simplify Algebraic Expressions</b> Simplifying algebraic expressions	387 – 393
6-1	<b>Solve One-Step Addition and Subtraction Equations</b> Solving addition and subtraction equations	437 – 444
6-2	<b>Multiplication and Division Equations</b> Solving multiplication and division equations	447 – 453
6-4	<b>Solve Two-Step Equations</b> Solving two-step equations	469 – 475
6-5	<b>More Two-Step Equations</b> Solving equations in $p(x + q) = r$ form	481 – 487
6-6	<b>Solve Inequalities by Addition or Subtraction</b> Solving inequalities by using the addition or subtraction properties of inequalities	497 – 504
6-7	<b>Solve Inequalities by Multiplication or Division</b> Solving inequalities by using the multiplication or division properties of inequalities	505 – 512
6-8	<b>Solve Two-Step Inequalities</b> Solving two-step inequalities and representing solution on the number line	513 – 520

<p>2. <b>Type of Questions:</b></p> <ul style="list-style-type: none"> <li>a. Definitions (<b>Matching or fill in the blank questions</b>)</li> <li>b. Matching</li> <li>c. Multiple Choices.</li> <li>d. Calculations.</li> <li>e. Word Problems.</li> </ul>	<p>3. <b>You are expected to:</b></p> <ul style="list-style-type: none"> <li>a) Review mid-checks.</li> <li>b) Review mid-unit assessments.</li> <li>c) Review homework.</li> <li>d) Review word problems.</li> <li>e) Review students' notes.</li> </ul> <p>➤ IXL: R4, R10, R11, R14, S2, S5, S6, S7, T1, T4, T6</p>
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**VOCABULARY:** (**Definitions should not be memorized it should be understood**)

**Variable:** Variable is a symbol that represents an unknown quantity. (Letters like x, y, a, b, c, ...)

**Numerical Expression:** Numerical expression is a mathematical sentence that contains numbers and mathematical operations (addition, subtraction, division, multiplication)

**Algebraic Expression:** Algebraic expression is a mathematical sentence that contains numbers, variables, and mathematical operations.

**Equation:** An equation states that two quantities are equal. (It has an "=" sign)

**Term:** A term is either a single number or a variable, or a product or quotient of numbers and variables. (Example: 2, y, 3x)

**Like Terms:** Like terms are terms whose variables are the same.

**Constant:** A constant is a number on its own. (A number without a variable)

**Coefficient:** is the numerical factor of a term that contains a variable. (4x means 4 times x, so 4 is a coefficient)

Variables on their own (without a number next to them) has a coefficient of 1 (x is really 1x)

**Associative Property:** The way in which numbers are grouped does not change their sum or product.

**Commutative Property:** The order in which two numbers are added or multiplied does not change their sum or product.

**Additive Identity Property:** the sum of any number and zero is the number.

**Multiplicative Identity Property:** The product of any number and one is the number.

**Multiplicative Property of Zero:** The product of any number and zero is zero.