

## Grade 7(H) End of Unit 3 Assessment Study Guide

**Subject:** Math

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

**Duration of Test:** 80 minutes

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

### 1. Textbook/Workbooks:

<b>Chapters</b>	<b>Topic</b>	<b>Pages</b>
8.1	<b>Functions</b> To determine whether a relation is a function.	399-404
8.5	<b>Constant Rate of Change and Direct Variation</b> To identify proportional and non-proportional relationships by finding a constant rate of change.	424 - 430
8.6	<b>Slope</b> To find the slope of a line.	433 - 437
8.7	<b>Slope-Intercept Form</b> To determine the slope and the Y-Intercept of a line.	439 - 444
8.8	<b>Writing Linear Equations</b> To write equations given the slope and Y-Intercept, a graph, a table, or two points.	447 - 453
8.10	<b>Systems of Equations</b> To solve systems of Linear Equations by graphing or by substitution.	461 - 465
9.1	<b>Power and Exponents</b> To write and evaluate expressions with exponents.	481 - 485
9.2	<b>Prime Factorization</b> To write prime factorization of composite numbers.	486 - 490
9.3	<b>Multiplying and Dividing Monomials</b> To multiply and divide monomials.	495 - 499
9.6	<b>Powers of Monomials</b> To find the power of a power.	515 - 520

<p><b>1. Types of Questions:</b></p> <ul style="list-style-type: none"> <li>a. Word problems</li> <li>b. Multiple Choice</li> <li>c. Definitions (Matching or fill in the blank questions)</li> <li>d. Calculations</li> <li>e. Plotting</li> </ul>	<p><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 mental math</li> <li>d) Review homework (IXL: Grade 8 skills A4, F2, F11, Y1, Y2, Y6, Y8, Y10, Z1, Z6, Z7, AA2, AA3, AA8, BB8 )</li> <li>e) Review word problems worksheets</li> <li>f) Review students' notes.</li> </ul>
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**Keywords:** (Definitions should not be memorized it should be understood)

**Function:**

A function is a special relation in which each member of the domain is paired with exactly ONE MEMBER of the range

**Ordered Pair:**

A set of numbers, or coordinates, written in the form (x, y).

**Relation:**

A set of ordered pairs.

**Domain:**

The set of all x-coordinates from each pair in a relation.

**Range:**

The set of all y-coordinates from each pair in a relation.

**Vertical Line Test:**

A test to see if a graph represents a function – if a vertical line intersects the graph more than once, then the graph is not a function. Otherwise, the relation is a function.

**Direct Variation:**

A relationship such that as x increases in value, y increases or decreases as a constant rate (k).

**Constant of Variation (k):**

The slope, or rate of change, in the equation  $y = kx$ , represented by k.

**Equation:**

A mathematical sentence that contains = sign.

**Exponent** tells how many times a number is used as a factor.

**Power:**

A number that is expressed using an exponent.

**Prime Number:**

A number that has exactly two factors, 1 and itself.

**Composite Number:**

A whole number that has more than two factors.

**Monomial:**

An expression that is a number, a variable, or a product of numbers and/or variables.