Grade 8 Math Study Guide: Midterm Exam

Subject: Math
Date & Time of Test: 20 / 12 / 2017
Duration of Exam: 60 minutes.
You are expected to study from: All materials mentioned

1. **Textbook/Workbooks:**

Chapters	Topic	Pages
5.3	**Inequalities** Write inequalities and graph inequalities on a number line	236 - 241
5.4	**Solving Inequalities** Solving inequalities using the addition, subtraction, multiplication or division properties	243 - 249
5.5	**Solving Multi-Step Inequalities** To solve Multi-step inequalities	250 - 255
8.1	**Functions** To determine whether a relation is a function	399 - 404
8.3	**Representing Linear Functions** Solve linear equations with two variables. Graph linear equations using ordered pairs.	410-417
8.4	**Rate of Change** Find rate of change. Solving problems involving rate of change.	418-423
8.5	**Constant Rate of Change and Direct Variation** Identify proportional and non-proportional relationships by finding constant rate of change. Solve problems involving direct variation.	424-430
8.6	**Slope** Finding the slope of a line. Solving word problems to find the slope.	433-437

8.7	**Slope-Intercept Form** Determine slopes and y-intercepts of lines. Graph linear equations using slope and y-intercept.	439-444
8.8	**Writing Linear Equations** Write equations given the slope and y-intercept, a graph, a table, or two points. Use linear equations to solve problems.	447- 453
8.9	**Prediction Equations** Draw lines of fit for sets of data. Use lines of fit to make predictions about sets of data.	454 - 460
8. 10	**Systems of Equations** Solve systems of linear equations by graphing. Solve systems of linear equations by substitution.	461 - 465

1. **Types Of Questions:** a. Word problems. b. Multiple Choices. c. Calculations. d. Graphing	2. **You are expected to :** a) Review pop quizzes b) Review quizzes c) Review homework **IXL: Y6, Y7, Y8** d) Review word problems worksheets e) Review students' notes.

Key words:

Function	**Rate of Change**	**Slope**
Direct Variation	**Inequality**	**Best-fit line**
Equation	**Slope-Intercept Form** **y = mx + b**	**Intercepts (x-intercept and y-intercept)**

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