

## Study Guide – Math 8 CP: End of Course Exam

### General Information:

- ❖ Test is on Tuesday June 4th (Periods 2, 4, 6) and covers all of the content we have covered this year
- ❖ You will have the entire block class period to complete it and it will be taken independently in class on Chromebooks
- ❖ Calculators are NOT allowed on the test
- ❖ The test is 45 multiple choice questions

### How to use this guide:

- Do a few problems on each of the topics listed below (from the homework, classwork, previous quiz/test problems)
- Ask questions in class, after school, or in Math Help on topics that you are still confused about

### Things you will be expected to be able to do and explain on the test:

- ✓ Transformations of 2D object in X-Y plane (translations, reflections, rotations, and dilations)
- ✓ Simplifying expressions with square/cube roots, square/cubes of numbers, & exponents
- ✓ Operations w/exponents & scientific notation
- ✓ Approximating square roots
- ✓ Classifying numbers as rational or irrational
- ✓ Pythagorean Theorem and applications of it
- ✓ Calculating volume, surface area, & missing dimensions of 3D objects (prisms, cylinders, pyramids, cones)
- ✓ Linear Patterns: extending patterns, completing tables, and finding rules (equations)
- ✓ Functions: identifying functions, creating rules for linear functions
- ✓ Solving and Graphing Equations
- ✓ Identifying & Interpreting slope and y-intercepts of linear relationships
- ✓ Solving system of linear equations (algebraically & graphically)
- ✓ Two-Way Frequency tables (interpreting/completing)
- ✓ Scatterplots (identifying associations)
- ✓ Angle relationships (parallel lines cut by transversal, triangle sum theorem)
- ✓ Similarity between Figures

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