**Honors Math 2 Boot Camp**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Due to the fast-paced nature of an honors course, we do not have the time at the beginning of the year to thoroughly review skills from prior math classes. Instead it will then be your job to go online (on your own time at home, in the library, etc.) and complete the learning targets (located in Math Gym) listed below. Any questions pertaining to the learning targets listed below are fair game for the Chapter 1 and 2 test. If at any point you have questions or are struggling, come in and work with me before or after school.

After you finish each learning target, have a parent or guardian initial to verify you and you alone completed it in a genuine manner. This will be due by the September 24th Test for HW points.

*To locate these skills, go to our class website (mathswenson.weebly.com), click Honors 2, then select Math Gym. Make sure you watch the video attached to each learning target before attempting the questions.*

\*\*\*Some sections have more than 1 skill to complete and I have additional boxes for guardians to initial.

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| 0.1 | [solve using the Pythagorean Theorem](https://www.khanacademy.org/math/basic-geo/basic-geo-pythagorean-topic/basic-geo-pythagorean-theorem/e/pythagorean_theorem_1) |  |  |  |
| 0.2 | [define trig ratios of given triangles and](https://www.khanacademy.org/math/trigonometry/trigonometry-right-triangles/intro-to-the-trig-ratios/e/trigonometry_1)[use to solve for missing sides](https://www.khanacademy.org/math/trigonometry/trigonometry-right-triangles/trig-solve-for-a-side/e/trigonometry_2) |  |  |  |
| 0.3 | Define points, lines, planes, and [use the distance formula](https://www.khanacademy.org/math/basic-geo/basic-geometry-pythagorean-theorem/pythagorean-theorem-distance/e/distance_formula) |  |  |  |
| 0.4 | identify and utilize angle relationships ([linear pairs](https://www.khanacademy.org/math/geometry-home/geometry-angles/geometry-vert-comp-supp/e/complementary_and_supplementary_angles) and [vertical angles](https://www.khanacademy.org/math/basic-geo/basic-geo-angle/vert-comp-supp-angles/e/vertical_angles), etc) |  |  |  |
| 0.5 | [find the perimeter and area](https://www.khanacademy.org/math/basic-geo/basic-geo-area-and-perimeter/area-trap-composite/e/composing-and-decomposing-shapes) of 2-dimensional figures |  |  |  |
| 0.6 | [find the surface area and volume](https://www.khanacademy.org/math/basic-geo/basic-geo-area-and-perimeter/area-trap-composite/e/composing-and-decomposing-shapes) of 3-dimensional figures |  |  |  |
| 0.7 | [apply the distributive property](https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-equivalent-exp/cc-6th-distributive-property/e/distributive-property-with-variables) both forwards and [backwards (factoring out)](https://www.khanacademy.org/math/algebra-basics/quadratics-polynomials-topic/factoring-simple-expressions-core-algebra/e/factoring_linear_binomials) |  |  |  |
| 0.8 | express relations as tables, graphs and mappings and [interpret graphs](https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/linear-nonlinear-functions-tut/e/interpreting-graphs-of-linear-and-nonlinear-functions) |  |  |  |
| 0.9 | [determine if a graph is linear or nonlinear](https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/linear-nonlinear-functions-tut/e/linear-non-linear-functions) and point out characteristics of the graph |  |  |  |
| 0.10 | [solve multi-step equations with variables on both sides](https://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/complicated_equations/e/multistep_equations_with_distribution) |  |  |  |
| 0.11 | [isolate and solve for a single variable within a formula](https://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/solving_for_variable/e/solving_for_a_variable) |  |  |  |
| 0.12 | [find slope of a line from a graph](https://www.khanacademy.org/math/algebra/two-var-linear-equations/slope/e/slope-from-a-graph)and [from two points on the line](https://www.khanacademy.org/math/algebra-basics/core-algebra-graphing-lines-slope/core-algebra-slope/e/slope-from-two-points) |  |  |  |
| 0.13 | [solve systems of linear equations by elimination](https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-systems-topic/cc-8th-systems-elimination/e/systems_of_equations_with_elimination) |  |  |  |
| 0.14 | [solve systems of linear equations by substitution](https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-systems-topic/cc-8th-systems-with-substitution/e/systems_of_equations_with_substitution) |  |  |  |
| 0.15 | apply exponent properties for [products](https://www.khanacademy.org/math/algebra-basics/core-algebra-exponent-expressions/core-algebra-exponent-properties/v/exponent-properties-involving-products) and [quotients](https://www.khanacademy.org/math/algebra-basics/core-algebra-exponent-expressions/core-algebra-exponent-properties/v/exponent-properties-involving-quotients) (watch 2 videos and try [this practice](https://www.khanacademy.org/math/in-seventh-grade-math/exponents-powers/in-exponents/e/positive_and_zero_exponents)) and [properties for zero and negative exponents](https://www.khanacademy.org/math/pre-algebra/exponents-radicals/exponent-properties/e/properties-of-integer-exponents) (extra negative exponent practice [here](https://www.khanacademy.org/math/pre-algebra/exponents-radicals/negative-exponents-tutorial/e/exponents_2)) |  |  |  |
| 0.16 | [factor](https://www.khanacademy.org/math/algebra-basics/quadratics-polynomials-topic/factoring-quadratic-expressions-core-algebra/e/factoring_polynomials_1) and [solve quadratics when leading coefficient is 1](https://www.khanacademy.org/math/algebra-basics/quadratics-polynomials-topic/solving-quadratics-factoring/e/solving_quadratics_by_factoring) |  |  |  |
| 0.17 | [factor and solve](https://www.khanacademy.org/math/algebra/multiplying-factoring-expression/factoring-by-grouping/e/factoring_polynomials_by_grouping_1) quadratics where leading coefficient is not 1 |  |  |  |