Name: _____

GEOMETRY AB/BC
Summer Packet

Welcome to Geometry AB/BC! We are looking forward to a great year ahead with you!

We made the following practice to help our students. Some of you may want to look at the skills that support your future success; others may want to practice specific skills, and others may want to do a little bit every day and practice all the material. Whatever you choose, know that this packet is not required. It is provided as supplemental review material, and it builds a "do-a-little-math everyday" habit! This packet is not to be used as a packet to get ahead in Geometry, but rather to solidify your algebra skills when solving problems in Geometry. When practicing, focus on understanding, not speed!

All the problems will be via https://www.ixl.com/math. There is no need to sign into IXL. You can complete ten problems per day without an account. We recommend practicing 2-3 days per week, completing ten questions during each practice session. Of course, practice until you feel confident. You can use the grids below as scratch paper for each IXL section as necessary. The QR codes get you into the specific practice for the stated topic. This packet will not be collected. It is supplemental for your benefit. Keeping up your skills from the previous class, especially over the summer, will help you be successful.

We are excited to meet you soon in August! Have a great summer!
-Your Geometry AB/BC Teachers

Prep for Geometry AB/BC IXL Links
I.   Working with Slope
        a. Algebra 1: K.1 Find the slope of a graph
        b. Algebra 1: K.2 Find the slope from two points

II.   Writing Equations of Lines
        a. Algebra 1: L.15 Point-slope form: write an equation
        b. Algebra 1: L.18 Slopes of parallel and perpendicular lines
        c. Algebra 1: L.19 Write an equation for a parallel or perpendicular line

III.   Solving Linear Systems of Equations
        a. Algebra 1: O.8 Solve a system of equations using substitution
        b. Algebra 1: O.10 Solve a system of equations using elimination
        c. Algebra 1: O.14 Solve a system of equations using any method

IV.   Working with quadratic equations
        a. Algebra 1: W.8 Multiply two binomials
        b. Algebra 1: X.4 Factor quadratics with leading coefficient 1
        c. Algebra 1: X.5 Factor quadratics with other leading coefficients
        d. Algebra 1: Z.2 Solve a quadratic equation using the zero-product property
        e. Algebra 1: Z.3 Solve a quadratic equation by factoring

V.   Radicals
        a. Algebra 1: EE.1 Simplify radical expressions

Space for your work / QR Codes:

I. **Working with Slope**
  a. [Algebra 1: K.1 Find the slope of a graph](#)

  b. [Algebra 1: K.2 Find the slope from two points](#)

II. Writing Equations of Lines

a. [Algebra 1: L.15 Point-slope form: write an equation](#)

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b. [Algebra 1: L.18 Slopes of parallel and perpendicular lines](#)

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c. [Algebra 1: L.19 Write an equation for a parallel or perpendicular line](#)

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III. Working with quadratic equations
a. [Algebra 1: O.8 Solve a system of equations using substitution](#)

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b. [Algebra 1: O.10 Solve a system of equations using elimination](#)

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c. Algebra 1: O.14 Solve a system of equations using any method

IV. Working with quadratic equations

    a. [Algebra 1: W.8 Multiply two binomials](#)

    b. [Algebra 1: X.4 Factor quadratics with leading coefficient 1](#)

    c. [Algebra 1: X.5 Factor quadratics with other leading coefficients](#)

d. [Algebra 1: Z.2 Solve a quadratic equation using the zero-product property](#)

e. [Algebra 1: Z.3 Solve a quadratic equation by factoring](#)

V.   Radicals
a. [Algebra 1: EE.1 Simplify radical expressions](#)