

Incoming Honors 8th Grade (Students going into Honors Algebra 1)

Dear Students,

The Khan Academy summer course will reinforce previously taught math concepts. **Please be aware that this assignment is mandatory.**

The completed Khan Academy and spiral notebook with your work is to be turned in to your math teacher by **FRIDAY, August 26th, 2022.** It will be a first quarter grade in the 2022-2023 school year.

CALCULATORS ARE NOT TO BE USED. The objective of these lessons is to provide practice problems that would develop stronger critical thinking and problem solving skills. The use of calculators would defeat this purpose.

ALL WORK IS TO BE SHOWN IN ONE SPIRAL NOTEBOOK. Put the week of the assigned word problems at the top of each of the notebook pages. Each week start a new set of problems on a new sheet of paper in the notebook. Problems must be numbered. The work must be written neatly on the lines. A line is to be skipped between problems.

Each week, you are to do about 20 problems. Sometimes it is a little less, sometimes it is a little more. You should spend 15-20 minutes daily on these math problems. Do not finish the whole assignment the last week of the summer. This defeats the purpose of maintaining skills throughout the summer months. If you work a little all summer, then you will strengthen your math skills and be ready to begin school again in August.

In August, there will be an open help session provided at designated times for each grade level responsible for the summer math work. The times and date for this help session will be sent out closer to August. Students must have the Khan Academy summer course completed along with ALL your work to be permitted to attend this session. You should have flagged the questions you had trouble with by either using a post it note in your notebook or writing a list of the week number and question number you had difficulty with. (Ex: "Week #5 Question #2) This help session IS NOT to grade the packet for accuracy.

We wish you a safe and fun-filled summer!

Respectfully,
Preparatory Math Department

YOU MUST FOLLOW THESE IMPORTANT GUIDELINES!

- 1) Read each problem twice before solving.
- 2) **ALL WORK** must be shown in a spiral notebook. A new page should be started for each week. Problems must be numbered, and work written on the lines neatly. **DO NOT JUST WRITE THE ANSWER → MUST SHOW ALL THE STEPS THAT BRING YOU TO YOUR ANSWER.** Once work is completed type your answers to Khan Academy.
- 3) One point will be earned for each correct solution for a total of 192, and 18 points will be earned for completely showing work in the spiral notebook for a **GRAND TOTAL OF 200 POINTS!**

Summer Khan Academy Progress Tracker

Assignment	Date Assigned/ Available	<i>SUGGESTED</i> Due Date	Initials <i>(when completed)</i>
Week #1	June 13 th	June 17 th	
Week #2	June 20 th	June 24 th	
Week #3	June 27 th	July 1 st	
Week #4	July 4 th	July 8 th	
Week #5	July 11 th	July 15 th	
Week #6	July 18 th	July 22 nd	
Week #7	July 25 th	July 29 th	
Week #8	August 1 st	August 5 th	
Week #9	August 8 th	August 12 th	

****FINAL DUE DATE IS FRIDAY AUGUST 26, 2022 ****

(See third page for list of assignments)

Khan Academy Instructions

- 1) Go to "www.khanacademy.org" & click **SIGN IN**.
- 2) Login with your iwaonline school email.
- 3) Go to the upper right hand corner for the notifications and the lessons that you are supposed to complete.

Summer Math Packet Help Session Schedule

TBA

Week 1

(7 points) Two step equations

(7 points) Two step inequalities

(4 points) Equations with variables on both sides

(4 points) Equations with parentheses

Total: 22 points

Week 2

(4 points) Equivalent ratio word problems

(7 points) Ratios on coordinate plane

(4 points) Rate problems

(7 points) Proportional relationships

Total: 22 points

Week 3

(4 points) Interpreting graphs of proportional relationships

(4 points) Equivalent representations of percent problems

(4 points) Proportion word problems

(4 points) Writing proportional equations from tables

Total: 16 points

Week 4

(4 points) Writing proportional equations

(4 points) Graphing proportional relationships

(7 points) Rates and proportional relationships

Total: 15 points

Week 5

(4 points) Patterns with numbers

(7 points) Tables from rules that relate 2 variables

(4 points) Graphs of rules that relate 2 variables

(4 points) Relationship between 2 patterns

Total: 19 points

Week 6

(4 points) Evaluate functions

(4 points) Function rules from equations

(4 points) Linear equation word problems

(4 points) Linear models word problems

(4 points) Writing linear function word problems

Total: 20 points

Week 7

(7 points) Linear and nonlinear functions

(4 points) Square roots

(7 points) Cube roots

(4 points) Multiply powers

Total: 22 points

Week 8

(7 points) Classify numbers

(4 points) Powers of powers

(4 points) Divide powers

(4 points) Negative exponents

(4 points) Powers of products and quotients (integer exponents)

Total: 23 points

Week 9

(4 points) Combining like terms with rational coefficients

(4 points) Combining like terms with negative coefficients and distribution

(7 points) Equivalent expression: negative numbers and distribution

Total: 15 points