

Incoming On track 8th Graders

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) Signs of Sums

(7 points) Adding Negative Numbers

(4 points) Missing numbers on the number line

(4 points) Understand subtraction as adding the opposite

Total: 22 points

Week 2

(7 points) Subtracting negative numbers

(4 points) Number equations and number lines

(4 points) Interpret negative number addition and subtraction expressions

(7 points) Adding and Subtracting negative numbers

Total: 22 points

Week 3

(7 points) Adding and Subtracting negative fractions

(4 points) Negative number addition and subtraction: word problems

(7 points) One step equations with negatives (multiply and divide)

(4 points) Multiplying and Dividing negative numbers word problems

Total: 22 points

Week 4

(7 points) Order of Operations with Negative numbers

(4 points) Adding and subtracting rational numbers

(4 points) Tax and tip word problems

(4 points) Discount, markup, and commission word problems

Total: 19 points

Week 5

(4 points) Rates with fractions

(7 points) Identify proportional relationships

(7 points) Proportional relationships

(4 points) Interpreting graphs of proportional relationships

Total: 22 points

Week 6

(7 points) Solving proportions

(4 points) Writing proportions

(4 points) Proportion word problems

(4 points) Writing proportional equations

Total: 19 points

Week 7

(7 points) Combining like terms with negative coefficients

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

(4 points) Distributive property with variables (negative numbers)

(7 points) Two step equations

Total: 22 points

Week 8

(4 points) Two-step equation word problems

(7 points) One-step inequalities

(7 points) Two-step inequalities

(4 points) Circumference of a circle

Total: 22 points

Week 9

(7 points) Area of a circle

(4 points) Complementary and supplementary angles (visual)

(4 points) Cross sections of 3D objects

(7 points) Comparing probabilities

Total: 22 points