

Incoming 8th Algebra Math Summer Packet

This summer, you will complete two types of math tasks to keep your math skills strong and prepare for Algebra 1:

1. **Notes & iXL:**

Watch the videos posted on Google Classroom. Complete the 8th Grade Math iXL skills listed with a score of at least 80%. You **must submit your work** to receive credit.

2. **Questions Packet:**

Complete the packet. **Show your work.**

Suggested Pacing Guide

Use the following guide as a suggestion of when to complete quizzes and the games task. in July and August. This will help you keep track of what work needs to be completed and keep your math skills strong throughout the summer!

Weeks of:	Tasks	Completed 
June 29th & July 6th	Slope- Khan Academy	
	iXL Z.1 & Z.2	
	Packet questions # 1,4,5,15	
July 13th & 20th	Slope Intercept Form- Khan Academy	
	iXL AA.2, AA.4	
	Packet questions # 2,3, 20	
July 27th, August 3rd, August 10th	Solving Multi-Step Equations- Khan Academy	
	iXL M.16, M.18	
	Packet questions # 6-14, 16-19	
August 17th	Pythagorean Theorem-Khan Academy	
	iXL T.1, T.2, T.5	

All iXL work and packets must be completed and turned in on the first day of school, September 2nd!

Paquete de Verano de Álgebra y Matemáticas 8°

Este verano, completarán dos tipos de tareas de matemáticas para mantener sus habilidades matemáticas fortalecidas y prepararse para Álgebra 1:

1. **Notas e iXL:**

Mira los videos publicados en Google Classroom. Completa las habilidades de Matemáticas iXL de 8.º grado con una puntuación mínima del 80%. Debes **enviar tu trabajo** para recibir crédito.

2. **Paquete de preguntas:**

Completa el paquete. **Muestra tu trabajo.**

Guía de Ritmo Sugerida

Usa la siguiente guía como sugerencia para saber cuándo completar los exámenes y la tarea de juegos en julio y agosto. Esto te ayudará a llevar un registro del trabajo pendiente y a mantener tus habilidades matemáticas fortalecidas durante el verano.

Semanas de:	Tareas	Terminado ☒
Junio 29 y Julio 6	Pendiente - Khan Academy	
	iXL Z.1 & Z.2	
	Preguntas del paquete # 1, 4, 5,15	
Julio 13 & 20	Forma de Pendiente-Intersección - Khan Academy	
	iXL AA.2, AA.4	
	Preguntas del paquete # 2, 3,20	
Julio 27, Agosto 3, Agosto 10	Solución de Ecuaciones de Varios Pasos - Khan Academy	
	iXL M.16, M.18	
	Preguntas del paquete n.º 6-14, 16-19	
Agosto 17	Teorema de Pitágoras - Khan Academy	
	iXL T.1, T.2, T.5	

¡Todos los trabajos y paquetes de iXL deben completarse y entregarse el primer día de clases, Septiembre 2 !

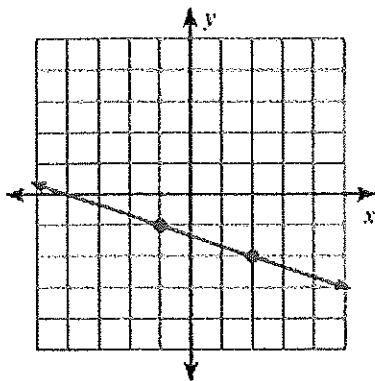
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Summer 2025

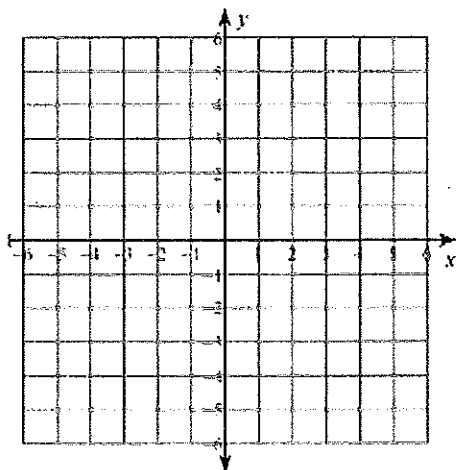
Please show all your work neatly & clearly! Double check if your answer is reasonable :)

1. Find the slope of the line shown.

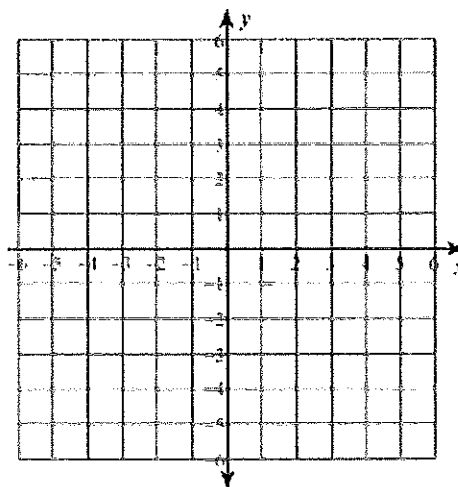


2. Sketch a graph of the line.

$$y = \frac{1}{4}x + 2$$



3. Sketch a graph of the line.
 $x = 5$



4. Find the slope of a line that passes through $(-12, 1)$ and $(4, 1)$.

5. Find the slope of the line shown in the table.

x	y
-6	12
-3	6
3	-6
6	-10

6. Solve each equation for the given variable.

$$A = \frac{1}{2}(hb) \text{ for } h$$

7. Solve each equation for the given variable.

$$C = \frac{5}{9}(F - 32) \text{ for } F$$

8. Solve the equation below.

$$8k - (6k - 4) = 10$$

9. Solve the equation below.

$$9(m + 5) - 3(m - 2) = 8m + 31$$

10. Solve the equation below.

$$3(x - 4) + 1 = 19$$

11. Solve the equation below.

$$\frac{6x+4}{2} = 3x + 2$$

12. Solve the equation below.

$$-\frac{1}{3}(9x + 42) - 5x = -70$$

13. Solve the equation below.

$$-10(h + 5) - 3 = -83$$

14. The highest score on an Algebra test was 42 points more than the lowest. When added together, the lowest and highest score was 154. Find both the highest and lowest score.

15. Use slope formula to find the value of k so that the line that passes through $(k, 4)$ and $(1, 0)$ has a slope of $m = -2$

16.

The total amount y (in dollars) in your savings account after buying x video games is represented by $y = 80 - 10x$. You have \$20 in your account after buying video games. How many video games did you buy?

17. Solve.

$$3x + 12 - 6x = -9$$

18.

You have \$15 to spend on lip balm and hand sanitizer. The equation $1.5x + 2.5y = 15$ represents this situation, where x is tubes of lip balm and y is bottles of hand sanitizer. How many tubes of lip balm can you buy when you do not buy any bottles of hand sanitizer?

19. Solve.

$$-16 - 3(2x - 5) = -49$$

20.

Determine if the ordered pair $(-5, -1)$ is a solution of $2x - y = -11$.