10/31/2024 – Equations and Inequalities

Review of Unit 1 for Grade 7 and 8 Math (7A and PreAlgebra) – Fun theme: Mystery Numbers Questions to follow along with show. Watch: Math Homework Hotline

1) What is the solution to the equation below? (MA.7.AR.2.2) $\frac{k}{4} - 1 = -4$	2) What is the solution to the equation below? (MA.8.AR.2.1) $6(2x - 4) - 9 = -\frac{1}{3}(7x + x)$
3) Explain the difference between a linear equation having no solution, one solution, and infinitely many solutions. Give an example of each. (MA.8.AR.2.1)	4) What is the solution to the equation below? (MA.8.AR.2.1) $\frac{-4}{3}(6-n) - 5 = -3$
Description Example No Solution	
One solution	
Infinitely many solutions	
 5) What two integers does √31 fall between? (MA.8.NSO.1.1) 	6) Order the numbers from least to greatest. Identify which numbers are irrational. Write an inequality that compares a rational number and an irrational number. (MA.8.NSO.1.2) $\frac{1}{3} -\sqrt{31} \sqrt[3]{-31} \sqrt[3]{13} -\pi$

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7) What is (MA.8.A	the value of <i>h</i> in each equation? R.2.3)	8)	Solve the inequality and graph the solution on a number line. (MA.8.AR.2.2)
a) $h^3 =$	-343		$5(3-y) \ge 15$
b) $h^2 =$: 121		
	e inequality and graph the solution on a line. (MA.8.AR.2.2)	10)) Solve the inequality and graph the solution on a number line. (MA.8.AR.2.2)
	3m - 2 > -5		2w-4 < 3 - 7w + w