

Name: _____

Carnegie MSMS Course 3

Module 2: Modeling Linear Relationships, **Topic 3:** Systems of Linear Equations

Date	Lesson	Assignment	Score
	M2T3L1a	C/W: Pages 307 - 311 H/W: finish	
	M2T3L1b	C/W: Pages 312 - 316 H/W: Pages 317 - 318 REQUIRED	/4
		MATHia - Point of Intersection of Linear Graphs	/3
	M2T3L2a	C/W: Pages 319 - 323 H/W: finish	
	M2T3L2b	C/W: Pages 324 - 328 H/W: finish	
	M2T3L2c	C/W: Pages 329 - 330 H/W: Pages 331 - 332 REQUIRED	/4
		MATHia - Solving Linear Equations with Variables on Both Sides	/3
	M2T3L3a	C/W: Pages 333 - 337 H/W: finish	
	M2T3L3b	C/W: Pages 338 - 341 H/W: finish	
	M2T3L3c	C/W: Pages 342 - 346 H/W: Pages 347 - 348 REQUIRED	/4
		MATHia - Systems of Linear Equations	/3
		MATHia - Interpreting the Number of Solutions to Equations	/3
	M2T3L4a	C/W: Pages 349 - 353 H/W: finish	
	M2T3L4b	C/W: Pages 354 - 356 H/W: Pages 357 - 358 REQUIRED	/4
		MATHia - Solving Multi-Step Equations	/3
	M2T3L5a	C/W: Pages 359 - 361 H/W: finish	
	M2T3L5b	C/W: Pages 362 - 367 H/W: Pages 369 - 370 REQUIRED	/4
		MATHia - Analyzing the Structure of Systems	/3
		End of Topic Review Pages 371 - 372	/4
		Module 2, Topic 3, Assessment	

8th Grade Expressions and Equations Systems of Linear Equations

Systems of Equations (8.EE.7, 8.EE.8)

4.0	<p>The student will:</p> <ul style="list-style-type: none"> Develop a strategy to solve a system of linear equations in three variables (for example, reason that because a solution to a system of equations is the solution to each equation in the system it must preserve information from all the equations; apply that reasoning in using the substitution or elimination methods to solve the system of equations $x - y = 2$, $3x + z = 11$, and $y - 2z = -3$).
3.5	In addition to score 3.0 performance, partial success at score 4.0 content
3.0	<p>The student will:</p> <p>SLE1—Estimate the solutions to systems of linear equations from a graph of the equations (for example, graph a system of linear equations and estimate possible solutions to the system from the graph). 8.EE.8 Analyze and solve pairs of simultaneous linear equations.</p> <p>SLE2—Identify systems of linear equations with one solution, no solution, or infinitely many solutions (for example, inspect or solve the equations in a system of linear equations to identify whether they indicate a consistent or inconsistent system and, if consistent, whether the system is dependent or independent). 8.EE.7 Solve linear equations in one variable.</p> <p>SLE3—Solve systems of two linear equations in two variables (for example, find the values of both x and y in the system of linear equations including $2x + 3y = 12$ and $x + 4y = 11$ using both the elimination and substitution methods). 8.EE.8 Analyze and solve pairs of simultaneous linear equations.</p>
2.5	No major errors or omissions regarding score 2.0 content, and partial success at score 3.0 content
2.0	<p>SLE1—The student will recognize or recall specific vocabulary (for example, <i>intersect</i>, <i>solution</i>) and perform basic processes such as:</p> <ul style="list-style-type: none"> Graph linear equations. Explain that the point at which two lines intersect is the point whose x- and y-values satisfy both equations. Use a graph of a system of linear equations to determine whether the system has no solution, one solution, or infinitely many solutions. Use a graph of a system of linear equations to estimate the coordinates at which the lines described by the system intersect. <p>SLE2—The student will recognize or recall specific vocabulary (for example, <i>consistent</i>, <i>dependent</i>, <i>inconsistent</i>, <i>independent</i>) and perform basic processes such as:</p> <ul style="list-style-type: none"> Solve linear equations in one variable. Identify equations with no solution. For example, identify an equation that simplifies to an untrue equality as having no solution. Identify equations with infinitely many solutions. For example, identify an equation that simplifies to an identity (in which a constant or variable is equal to itself) as having infinitely many solutions (every possible value of the variable will make the equation a true statement). Explain that a system of linear equations that has no solution describes lines that are parallel (the lines do not intersect) and is said to be inconsistent. Explain that a system of linear equations that has infinitely many solutions describes the same line and is said to be dependent.

	<p>SLE3—The student will recognize or recall specific vocabulary (for example, <i>elimination method</i>, <i>substitution method</i>, <i>system of equations</i>) and perform basic processes such as:</p> <ul style="list-style-type: none"> • Explain that the solution to a system of equations satisfies every equation in the system. • Solve linear equations in two variables in terms of one of the variables. For example, solve a linear equation containing both x and y variables in terms of x. • Explain that the solution to a single variable for one equation of a system of equations in two variables can be plugged into a different equation in the system to find the solution of the other variable. • Add or subtract two equations. • Multiply an equation by a constant.
1.5	Partial success at score 2.0 content, and major errors or omissions regarding score 3.0 content
1.0	With help, partial success at score 2.0 content and score 3.0 content

Math Daily Work Rubric

	Above Standard (4)	Meets Standard (3)	Approaching Standard (2)	Below Standard (1)
Heading	Name (first & last), date, and period written neatly at the top right corner of page. Score is written in the top left corner.	Proper format. Score is written in the top left corner.	Heading is missing two or more required parts.	Heading is missing three or more parts.
Classwork/ Practice	100% of lesson is completed. All work is shown to support answers. Answers are clear. Corrections are written in COLORED INK.	At least 75% of lesson AND <u>all</u> practice work is attempted. All work is shown to support answers. Answers are clear. Corrections are in ink.	50% or more of the entire lesson is attempted. Supporting work might be missing.	An attempt was made to do the lesson. Lots of missing work and/or lots of errors.