

**SBAC Block Mirror: Math Grade 8 Expressions & Equations I (AE134323)**

Item Number	Item ID	Item Type	Standard Abbreviation	Standard Text	Cluster	Claim	Target(s)	Correct Answer	DOK
1	E261586	Multiple Choice	MA.8.EE.A.4	Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.	MA.8.EE.A	1	B	C	1
2	E261589	Technology Enhanced - Graph Plotting	MA.8.EE.B.5	Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.	MA.8.EE.B	1	C	autoscore	2
3	E261636	Technology Enhanced - Math Formula	MA.8.EE.A.1	Know and apply the properties of integer exponents to generate equivalent numerical expressions.	MA.8.EE.A	3	A, F	autoscore	1
4	E182831	Multiple Choice	MA.8.EE.C.7.a	Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$ , $a = a$ , or $a = b$ results (where $a$ and $b$ are different numbers).	MA.8.EE.C	1	D	C	1
5	E261588	Technology Enhanced - Math Formula	MA.8.EE.B.6	Use similar triangles to explain why the slope $m$ is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin and the equation $y = mx + b$ for a line intercepting the vertical axis at $b$ .	MA.8.EE.B	1	C	autoscore	2
6	E261638	Technology Enhanced - Cloze Association	MA.8.EE.C	Analyze and solve linear equations and pairs of simultaneous linear equations.	MA.8.EE.C	2	D, A	autoscore	2
7	E261585	Multiple Choice	MA.8.EE.A.1	Know and apply the properties of integer exponents to generate equivalent numerical expressions.	MA.8.EE.A	1	B	A	1
8	E210470	Technology Enhanced - Cloze Dropdown	MA.8.EE.C.8.a	Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.	MA.8.EE.C	3	F, B	autoscore	2
9	E261626	Technology Enhanced - Number Line	MA.8.EE.B.5	Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.	MA.8.EE.B	2	A, C	autoscore	2
10	E261590	Technology Enhanced - Graph Plotting	MA.8.EE.C.8.b	Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.	MA.8.EE.C	1	D	autoscore	2
11	E261587	Multiple Choice	MA.8.EE.A.4	Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology.	MA.8.EE.A	1	B	B	1
12	E261620	Technology Enhanced - Math Formula	MA.8.EE.C.8.c	Solve real-world and mathematical problems leading to two linear equations in two variables.	MA.8.EE.C	1	D	autoscore	2
13	E261625	Technology Enhanced - Graph Plotting	MA.8.EE.C.8.b	Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.	MA.8.EE.C	2	B, A	autoscore	2
14	E261621	Technology Enhanced - Math Formula	MA.8.EE.C.7.b	Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.	MA.8.EE.C	1	D	autoscore	2

Totals (SBAC bp)	Claim 1	9
	Target B	3
	Target C	2
	Target D	4
	Claim 2	3
	Claim 3	2
	Claim 4	0