

SBAC Block Mirror: Math Grade 4 Measurement and Data (AE136526)

Item Number	Item ID	Item Type	Standard Abbreviation	Standard Text	Cluster	Claim	Target(s)	Correct Answer	DOK
1	E261558	Technology Enhanced - Simple Chart	MA.4.MD.B.4	Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Solve problems involving addition and subtraction of fractions by using information presented in line plots.	MA.4.MD.B	1	J	autoscore	1
2	E261543	Technology Enhanced - Math Formula	MA.4.MD.A.3	Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	MA.4.MD.A	1	I	autoscore	1
3	E261556	Technology Enhanced - Math Formula	MA.4.MD.C.7	Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure.	MA.4.MD.C	1	K	autoscore	2
4	E261547	Technology Enhanced - Cloze Association	MA.4.MD.A.3	Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	MA.4.MD.A	4	C, B	autoscore	2
5	E261549	Technology Enhanced - Math Formula	MA.4.MD.B.4	Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Solve problems involving addition and subtraction of fractions by using information presented in line plots.	MA.4.MD.B	1	J	autoscore	2
6	E229442	Technology Enhanced - Cloze Dropdown	MA.4.MD.A.1	Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table.	MA.4.MD.A	1	I	autoscore	2
7	E261553	Technology Enhanced - Cloze Association	MA.4.MD.C.6	Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.	MA.4.MD.C	1	K	autoscore	2
8	E261532	Multiple Choice	MA.4.MD.A	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	MA.4.MD.A	2	D, A	B	2
9	E261544	Technology Enhanced - Cloze Association	MA.4.MD.A.3	Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	MA.4.MD.A	1	I	autoscore	2
10	E261536	Technology Enhanced - Math Formula	MA.4.MD.A.2	Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.	MA.4.MD.A	1	I	autoscore	2
11	E261552	Technology Enhanced - Math Formula	MA.4.MD.C.6	Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.	MA.4.MD.C	1	K	autoscore	2
12	E261551	Technology Enhanced - Math Formula	MA.4.MD.C.5	Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement.	MA.4.MD.C	1	K	autoscore	2
13	E261557	Technology Enhanced - Math Formula	MA.4.MD.C.7	Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure.	MA.4.MD.C	1	K	autoscore	2
14	E261535	Technology Enhanced - Math Formula	MA.4.MD.A.2	Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.	MA.4.MD.A	1	I	autoscore	2

15	E261533	Technology Enhanced - Cloze Association	MA.4.MD.A.1	Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table.	MA.4.MD.A	1	I	autoscore	2
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Totals	Claim 1	13
(SBAC bp)	Target I	6
	Target J	2
	Target K	5
	Claim 2	1
	Claim 3	0
	Claim 4	1

