New Question Type Samplers — Algebra 1 Answer Key

Item Position	Item Type	TEKS Alignment	Maximum Number of Points	Correct Answer(s)
1	Equation Editor	1.A.11.B	1	$\frac{x^5z^5}{y}$
2	Equation Editor	4.A.6.B	1	$x^2 + 8x - 2$
3	Equation Editor	3.A.5.A	1	7
4	Equation Editor	2.A.3.B	1	7
5	Graphing	5.A.9.D	1	Graph that includes (0, 6), (–1, 9), (1, 4) and an asymptote of $y = 0$
6	Graphing	4.A.7.C	1	Graph that includes (1, 0), (5, 0) and (3, 4)
7	Graphing	4.A.7.A	1	Graph of the line $x = -2$
8	Graphing	2.A.3.C	1	Any two points on the line $y = \frac{3}{5}x - 3$
9	Graphing	2.A.3.H	2	Graph 1: dashed line with *y*-intercept of (0, 4) and includes points (4, 1) and (–4, 7) Graph 2: dashed line with *y*-intercept of (0, –5) and includes points (2, –2) and (4, 1) Area to the right, containing point (5, 1) is shaded
10	Graphing	2.A.3.D	2	Graph of the line that includes (0, 5) and (6, 0). Area to the lower left that contains the point (0, 0) is shaded
11	Number Line	3.A.5.B	2	Ray that has a closed circle and points left with an endpoint of 3
12	Number Line	3.A.5.B	2	Ray that has an open circle and points right with an endpoint of 2
13	Inline Choice	4.A.7.A	2	Maximum and 4
14	Inline Choice	5.A.9.B	2	575,000 Increasing 40%
15	Hot Spot	2.A.3.D	2	(–2, 4) (4, –1)
16	Hot Spot	4.A.7.A	2	(–6, 0) (2, 0)
17	Drag and Drop	1.A.10.E	2	Completes the expression $2(x - 4)(x - 3)$ OR $2(x - 3)(x - 4)$

Item Position	Item Type	TEKS Alignment	Maximum Number of Points	Correct Answer(s)
18	Drag and Drop	3.A.2.G	2	$y = 2$ 0
19	Match Table Grid	1.A.12.A	2	Row 1: function Row 2: not a function Row 3: function
20	Match Table Grid	2.A.4.B	2	Row 1: Both Row 2: Association Row 3: Both
21	Multiselect	4.A.6.A	2	C: Domain: all real numbers E: Range: $y \geq -8$
22	Multiselect	2.A.3.E	2	A: The graph of f is steeper than the graph of g. C: To create g, f is translated 4 units to the left. E: The x-intercept of g is 4 units to the left of the x-intercept of f.