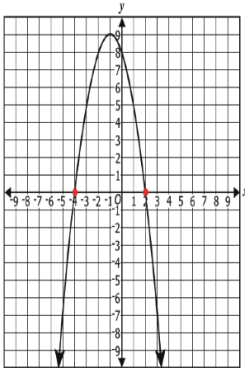


These are the way they will accept answers for TEI Questions

Algebra I
Released Test Item Set Spring 2015
Answer Key

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
1	MC	B	001	Expressions and Operations
2	MC	C	001	Expressions and Operations
3	TEI	$64\sqrt{x}$ (second from left) & $7x^2y\sqrt{2xy}$ (third from left) Both of these answers, and only these answers, must be selected.	001	Expressions and Operations
<div style="border: 1px solid gray; padding: 10px;"> <p>Directions: Click on all the correct answers.</p> <p>Identify each expression that is in simplest radical form.</p> <div style="display: flex; justify-content: center; gap: 10px; margin: 10px 0;"> <div style="border: 1px solid gray; padding: 2px 5px;">$x\sqrt{50y}$</div> <div style="border: 1px solid gray; padding: 2px 5px;">$64\sqrt{x}$</div> <div style="border: 1px solid gray; padding: 2px 5px;">$7x^2y\sqrt{2xy}$</div> <div style="border: 1px solid gray; padding: 2px 5px;">$\sqrt{12x^3y^4}$</div> </div> </div>				
4	MC	B	001	Expressions and Operations
5	MC	A	001	Expressions and Operations

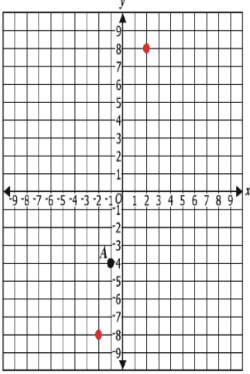
Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
6	MC	A	001	Expressions and Operations
7	MC	B	001	Expressions and Operations
8	MC	D	001	Expressions and Operations
9	MC	A	001	Expressions and Operations
10	MC	B	001	Expressions and Operations
11	MC	A	002	Equations and Inequalities
12	MC	A	002	Equations and Inequalities
13	MC	C	002	Equations and Inequalities
14	MC	D	002	Equations and Inequalities
15	MC	C	002	Equations and Inequalities

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
16	TEI	<p>Both of these points, and only these points, must be plotted on the coordinate plane: $(-4,0)$ and $(2,0)$.</p> <p>Directions: Click on the grid to plot each of the solutions. You must plot all solutions.</p> <p>The graph of $y = -x^2 - 2x + 8$ is shown.</p> <p>On the grid, identify each of the solutions to $-x^2 - 2x + 8 = 0$.</p> 	002	Equations and Inequalities
17	MC	C	002	Equations and Inequalities
18	MC	C	002	Equations and Inequalities

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
19	TEI	<p>Step 4 and Step 5 must be placed into the boxes. The order in which they are placed into the boxes does not matter.</p> <div style="border: 1px solid gray; padding: 10px; margin: 10px 0;"> <p>Directions: Click and drag the answers to the correct boxes.</p> <p>Christopher incorrectly solved an inequality as shown.</p> <p>Step 1: $-4(x - 7) + 1 \leq -3$</p> <p>Step 2: $-4(x - 7) \leq -4$</p> <p>Step 3: $-4x + 28 \leq -4$</p> <p>Step 4: $-4x \leq -32$</p> <p>Step 5: $x \leq 8$</p> <p>Between which two consecutive steps did Christopher make a mistake?</p> <div style="display: flex; align-items: center; justify-content: center; margin-top: 20px;"> <div style="border: 1px solid gray; padding: 2px 5px; margin-right: 5px;">Step 4</div> and <div style="border: 1px solid gray; padding: 2px 5px; margin-right: 20px;">Step 5</div> <div style="border: 1px solid gray; padding: 2px 5px; margin-right: 5px; display: inline-block; text-align: center;">Step 1</div> <div style="border: 1px solid gray; padding: 2px 5px; margin-right: 5px; display: inline-block; text-align: center;">Step 2</div> <div style="border: 1px solid gray; padding: 2px 5px; margin-right: 5px; display: inline-block; text-align: center;">Step 3</div> </div> </div>	002	Equations and Inequalities

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
20	TEI	Typed response: -17 (and all equivalent answers) <div style="border: 1px solid gray; padding: 5px; margin-top: 10px;"> <p style="background-color: #e0e0e0; margin: 0;">Directions: Type your answer in the box.</p> <p style="margin: 10px 0 0 20px;">Solve for n:</p> $\frac{3n - 7}{6} = \frac{2n + 5}{3}$ <p style="margin: 10px 0 0 20px;">$n =$ <input style="width: 40px; text-align: center;" type="text" value="-17"/></p> </div>	002	Equations and Inequalities
21	MC	D	002	Equations and Inequalities
22	MC	B	002	Equations and Inequalities

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
23	TEI	<p>Typed response: 6-y OR any equivalent expression that does not exceed six characters</p> <div style="border: 1px solid black; padding: 10px; margin: 5px 0;"> <p>Directions: Type your answer in the box.</p> <p>Based on the transitive property, complete this statement.</p> <p>If $2(y - 3) \geq 3x - 4$ and $3x - 4 \geq 6 - y$, then $2(y - 3) \geq$?</p> <div style="text-align: center; margin-top: 10px;"> <input style="border: 1px solid gray; padding: 2px 10px;" type="text" value="6-y"/> </div> </div>	002	Equations and Inequalities
24	MC	B	002	Equations and Inequalities
25	MC	B	002	Equations and Inequalities
26	MC	D	002	Equations and Inequalities

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
27	TEI	<p>Any <u>TWO</u> of these points must be plotted on the coordinate plane: $(-2,-8)$, $(0,0)$, $(1,4)$, or $(2,8)$ Two of these points, $(2,8)$ and $(-2,-8)$, are shown on the coordinate plane below.</p> <p>Directions: Click on the grid to plot two points. The coordinates of the points must be integers.</p> <p>Point A is an element of a direct variation. Plot two points, other than A, that are elements of this direct variation. The coordinates of the points must be integers.</p> 	003	Functions and Statistics
28	MC	B	003	Functions and Statistics
29	MC	B	003	Functions and Statistics
30	MC	C	003	Functions and Statistics
31	MC	D	003	Functions and Statistics
32	MC	D	003	Functions and Statistics

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
33	TEI	<p>Answers must be placed in the correct order from left to right: Set 3; Set 1; Set 2</p> <div style="border: 1px solid black; padding: 10px;"> <p>Directions: Click and drag the answers to the correct boxes.</p> <p>Each of these data sets has a mean of 20.</p> <p>Set 1: { 18, 19, 20, 21, 22 }</p> <p>Set 2: { 20, 20, 20, 20, 20 }</p> <p>Set 3: { 16, 18, 20, 21, 25 }</p> <p>Order the sets from greatest standard deviation to least standard deviation.</p> <div style="text-align: center;"> <div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">Set 3</div> <div style="border: 1px solid black; padding: 2px 5px;">Set 1</div> <div style="border: 1px solid black; padding: 2px 5px;">Set 2</div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-left: 10px;"></div> </div> <p style="margin-left: 20px;">Greatest → Least</p> </div> </div>	003	Functions and Statistics
34	MC	A	003	Functions and Statistics
35	MC	D	003	Functions and Statistics
36	MC	B	003	Functions and Statistics
37	MC	A	003	Functions and Statistics
38	MC	A	003	Functions and Statistics
39	MC	B	003	Functions and Statistics
40	MC	C	003	Functions and Statistics

Sequence Number	Item Type: Multiple Choice (MC) or Technology-Enhanced Item (TEI)	Correct Answer	Reporting Category	Reporting Category Description
41	MC	A	003	Functions and Statistics
42	MC	C	003	Functions and Statistics
43	MC	D	003	Functions and Statistics
44	MC	A	003	Functions and Statistics