

### TEST ADMINISTRATOR MANUAL

# Algebra I

## **STAAR Alternate 2**

### **Administered April 2016**

### RELEASED

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#### Texas Essential Knowledge and Skills (TEKS) Curriculum Assessed

Algebra I		Cluster 1
Reporting Category 1	Number and Algebraic Methods: demonstrate an understanding of methods to manipulate numbers, equations.	The student will f how to use algebraic , expressions, and
Knowledge and Skills Statement A.12	The student applies the mathema and algebraic methods to write, s evaluate equations, relations, an	atical process standards solve, analyze, and d functions.
Essence Statement	Finds values for or identifies func formulas.	tions, sequences, or
Item 1 Prerequisite Skill	represent real-world relationship table and verbal descriptions (3)	s using number pairs in a
Item 2 Prerequisite Skill	represent real-world relationship table and verbal descriptions (3)	s using number pairs in a
Item 3 Prerequisite Skill	represent problems using an inpunity numerical expressions to general follows a given rule representing values in the resulting sequence sequence (4)	ut-output table and te a number pattern that the relationship of the and their position in the
Item 4 Prerequisite Skill	represent mathematical and real involving ratios and rates using s graphs, and proportions (6)	-world problems scale factors, tables,

Algebra I		Cluster 2
Reporting Category 3	Writing and Solving Linear Functi and Inequalities: The student wil understanding of how to write an equations, and inequalities.	ons, Equations, I demonstrate an Id solve linear functions,
Knowledge and Skills Statement A.2	The student applies the mathema when using properties of linear fur represent in multiple ways, with linear equations, inequalities, and	atical process standards unctions to write and and without technology, d systems of equations.
Essence Statement	Determines linear equations usin representations.	g attributes or
Item 5 Prerequisite Skill	represent word problems involvir subtraction of whole numbers up and pictorial models and number	ng addition and to 20 using concrete sentences (1)
Item 6 Prerequisite Skill	represent word problems involvir subtraction of whole numbers up and pictorial models and number	ng addition and to 20 using concrete sentences (1)
Item 7 Prerequisite Skill	generate a numerical pattern whe form $y = ax$ or $y = x + a$ and gra	en given a rule in the iph (5)
Item 8 Prerequisite Skill	apply qualitative and quantitative prediction and comparison of rea involving ratios and rates (6)	e reasoning to solve I-world problems

Algebra I		Cluster 3
Reporting Category 2	Describing and Graphing Linear F and Inequalities: The student wil understanding of how to describe functions, equations, and inequal	Functions, Equations, I demonstrate an e and graph linear lities.
Knowledge and Skills Statement A.3	The student applies the mathema when using graphs of linear funct and related transformations to re ways and solve, with and without inequalities, and systems of equa	atical process standards tions, key features, present in multiple t technology, equations, ations.
Essence Statement	Determines key features or graph functions.	nical solutions for linear
Item 9 Prerequisite Skill	represent and solve one- and two division problems within 100 usir and equations (3)	o-step multiplication and ng arrays, strip diagrams,
Item 10 Prerequisite Skill	represent and solve one- and two division problems within 100 usir and equations (3)	o-step multiplication and ng arrays, strip diagrams,
Item 11 Prerequisite Skill	apply qualitative and quantitative prediction and comparison of rea involving ratios and rates (6)	e reasoning to solve I-world problems
Item 12 Prerequisite Skill	apply qualitative and quantitative prediction and comparison of rea involving ratios and rates (6)	e reasoning to solve I-world problems

Algebra I		Cluster 4
Reporting Category 5	Exponential Functions and Equati demonstrate an understanding of write exponential functions and e	ions: The student will f how to describe and equations
Knowledge and Skills Statement A.9	The student applies the mathema when using properties of exponen- related transformations to write, in multiple ways exponential equ with and without technology, the solutions. The student formulates and evaluates their reasonablene- data.	atical process standards ntial functions and their graph, and represent ations and evaluate, reasonableness of their s statistical relationships ess based on real-world
Essence Statement	Uses exponential functions to mo using real-world data.	del or solve problems
Item 13 Prerequisite Skill	represent problems using an inpu numerical expressions to generat follows a given rule representing values in the resulting sequence sequence (4)	ut-output table and te a number pattern that the relationship of the and their position in the
Item 14 Prerequisite Skill	represent problems using an inpu numerical expressions to generat follows a given rule representing values in the resulting sequence sequence (4)	ut-output table and te a number pattern that the relationship of the and their position in the

Algebra I		Cluster 4
Item 15 Prerequisite Skill	model and solve one-variable, on inequalities that represent proble concepts (6)	e-step equations and ems, including geometric
Item 16 Prerequisite Skill	model and solve one-variable, on inequalities that represent proble concepts (6)	e-step equations and ems, including geometric

Algebra I		Cluster 5
Reporting Category 4	Quadratic Functions and Equation demonstrate an understanding of and solve quadratic functions and	ns: The student will f how to describe, write, d equations.
Knowledge and Skills Statement A.8	The student applies the mathema to solve, with and without techno and evaluate the reasonableness student formulates statistical rela their reasonableness based on re	atical process standards ology, quadratic equations of their solutions. The ationships and evaluates al-world data.
Essence Statement	Uses quadratic equations to mod using real-world data.	el or solve problems
Item 17 Prerequisite Skill	represent real-world relationship: table and verbal descriptions (3)	s using number pairs in a
Item 18 Prerequisite Skill	represent real-world relationship: table and verbal descriptions (3)	s using number pairs in a
Item 19 Prerequisite Skill	recognize the difference between multiplicative numerical patterns (5)	additive and given in a table or graph
Item 20 Prerequisite Skill	model and solve one-variable, on inequalities that represent proble concepts (6)	e-step equations and ems, including geometric

Additional resources for STAAR Alternate 2, including the STAAR Alternate 2 Test Administrator Manual and the STAAR Alternate 2 Educator Guide, are available online: http://tea.texas.gov/student.assessment/ special-ed/staaralt/

### ALGEBRA I

- *Present* Stimulus 1. *Communicate:* **A student rides a bus to the store.**
- Direct the student to the first row in the table. Communicate: One trip costs \$4.00.
- *Direct* the student to the second row of the table. *Communicate:* **Two trips cost \$8.00.**
- *Direct* the student to the empty cell. *Communicate:* **The cost for 3 trips is missing from the table.**
- Direct the student to the "\$12.00." Communicate: Three bus trips cost \$12.00.
- Direct the student back to the empty cell. Communicate: Here is where the \$12.00 goes in the table.
- Communicate: Find where the \$12.00 goes in the table.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the empty cell,	-	mark <b>A</b> for question 1 and move to question 2.	
If the student does not find the empty cell,	-	<ul> <li>remove the stimulus;</li> <li>wait at least five seconds; and</li> <li>replicate the initial presentation instructions.</li> </ul>	
After the five-second wait time, if the student finds the empty cell,	-	mark <b>B</b> for question 1 and move to question 2.	
After the five-second wait time, if the student does not find the empty cell,		mark <b>C</b> for question 1 and move to question 2.	

- Present Stimulus 2a and 2b.
- *Direct* the student to the table. *Communicate:* This table shows the number of bus trips a student takes and the cost of the trips.
- *Direct* the student to each completed row in the table. *Communicate:* **One trip, 4 dollars. Two trips, 8 dollars. Three trips, 12 dollars.**
- *Direct* the student to the empty row. *Communicate:* **The number pair that belongs in this row of the table is missing.**
- *Direct* the student to each answer choice in Stimulus 2b. *Communicate* each answer choice.
- Communicate: Find the number pair that belongs in the empty row.

Stimulus 2a				
	Number of Bus Trips	Cost		
	1	\$4.00		
	2	\$8.00		
	3	\$12.00		
Stimulus 2b				
*	4	\$16.00		
			1	
	5	\$16.00		

Scoring Instructions		
Student Action		Test Administrator Action
If the student finds the row with 4 and \$16.00,	-	mark <b>A</b> for question 2 and move to question 3.
If the student does not find the row with 4 and \$16.00,		<ul> <li>model the desired student action by finding the row with 4 and \$16.00 and <i>communicate</i></li> <li>"This is the number pair that belongs in the empty row"; and</li> <li>replicate the initial presentation instructions.</li> </ul>
After teacher modeling, if the student finds the row with 4 and \$16.00,	-	mark <b>B</b> for question 2 and move to question 3.
After teacher modeling, if the student does not find the row with 4 and \$16.00,	-	mark <b>C</b> for question 2 and move to question 3.

- Present Stimulus 3a and 3b.
- *Direct* the student to Stimulus 3a. *Communicate:* This table shows the number of songs a student buys on the Internet and their cost. Two number pairs are missing in the table.
- Communicate the information in the table. Communicate each answer choice.
- Direct the student to each answer choice in Stimulus 3b.
- Communicate: Find the number pairs that are missing in the table.



Scoring Instructions		
Student Action		Test Administrator Action
If the student finds the number pairs "6, \$18.00" and "8, \$24.00,"	-	mark <b>A</b> for question 3 and move to question 4.
If the student does not find the number pairs "6, \$18.00" and "8, \$24.00,"		<ul> <li>provide one of these allowable teacher assists to the student:</li> <li>Have the student identify the pattern in each row of the table. OR</li> <li>Highlight the empty cells in the table. OR</li> <li>Have the student try out each answer choice in the table. OR</li> <li>Allow the student to use a calculator.</li> </ul>
After the selected teacher assistance, if the student finds the number pairs "6, \$18.00"	-	mark <b>B</b> for question 3 and move to question 4.
After the selected teacher assistance, if the student does not find the number pairs "6, \$18.00" and "8, \$24.00,"	-	mark <b>C</b> for question 3 and move to question 4.

- Present Stimulus 4a and 4b. Communicate: A student waters lawns in the summer.
- *Direct* the student to Stimulus 4a. *Communicate:* This table shows the gallons of water the student uses for the number of lawns she waters.
- Direct the student to each answer choice in Stimulus 4b.
- Communicate: Find the graph that shows the same data as the table.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the line graph,	-	mark <b>A</b> for question 4 and move to question 5.	
If the student does not find the line graph,	-	replicate the initial presentation instructions.	
After the teacher repeats the instructions, if the student finds the line graph,	-	mark <b>B</b> for question 4 and move to question 5.	
After the teacher repeats the instructions, if the student does not find the line graph,		mark <b>C</b> for question 4 and move to question 5.	

- Present Stimulus 5.
- *Direct* the student to the equation. *Communicate:* This equation shows that 7 + 8 equals 15.
- Communicate: Find the equation that shows 8 has been added.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the equation,	-	mark <b>A</b> for question 5 and move to question 6.	
If the student does not find the equation,	-	<ul> <li>remove the stimulus;</li> <li>wait at least five seconds; and</li> <li>replicate the initial presentation instructions.</li> </ul>	
After the five-second wait time, if the student finds the equation,	-	mark <b>B</b> for question 5 and move to question 6.	
After the five-second wait time, if the student does not find the equation,	-	mark <b>C</b> for question 5 and move to question 6.	

- Present Stimulus 6a and 6b.
- *Direct* the student to the equations in Stimulus 6a. *Communicate:* These equations show that 8 is added to 7 to equal 15 and that 8 is added to 6 to equal 14.
- *Direct* the student to each answer choice in Stimulus 6b. *Communicate* each answer choice.
- Communicate: Find the table that shows the same pattern as the equations.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the table with "7, 15" and "6, 14" in Stimulus 6b,	-	mark <b>A</b> for question 6 and move to question 7.	
If the student does not find the table with "7, 15" and "6, 14" in Stimulus 6b,		<ul> <li>model the desired student action by finding the table with "7, 15" and "6, 14" in Stimulus 6b and <i>communicate</i> "This table shows the same 'plus eight' pattern as the equations"; and</li> <li>replicate the initial presentation instructions.</li> </ul>	
After teacher modeling, if the student finds the table with "7, 15" and "6, 14" in Stimulus 6b,	-	mark <b>B</b> for question 6 and move to question 7.	
After teacher modeling, if the student does not find the table with "7, 15" and "6, 14" in Stimulus 6b,	-	mark <b>C</b> for question 6 and move to question 7.	

- Present Stimulus 7a and 7b.
- *Direct* the student to the equations in Stimulus 7a. *Communicate:* These equations are part of a pattern where each number is multiplied by 8.
- Communicate the equations in Stimulus 7a.
- Direct the student to the empty box. Communicate: The next equation in this pattern is missing.
- Direct the student to each answer choice in Stimulus 7b. Communicate each answer choice.
- Communicate: Find the next equation in the pattern.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds " $11 \times 8 = 88$ ,"	-	mark <b>A</b> for question 7 and move to question 8.	
If the student does not find "11 $\times$ 8 = 88,"		<ul> <li>provide one of these allowable teacher assists to the student:</li> <li>Have the student identify how the first number in each equation changes. OR</li> <li>Have the student use a number line to plot the first number in each equation. OR</li> <li>Allow the student to use a calculator or multiplication chart.</li> <li>Replicate the initial presentation instructions.</li> </ul>	
After the selected teacher assistance, if the student finds " $11 \times 8 = 88$ ,"	-	mark <b>B</b> for question 7 and move to question 8.	
After the selected teacher assistance, if the student does not find " $11 \times 8 = 88$ ,"	-	mark <b>C</b> for question 7 and move to question 8.	

- Present Stimulus 8a and 8b. Communicate: Chairs are needed for an event with 30 people.
- *Direct* the student to Stimulus 8a. *Communicate:* **The 30 chairs can be arranged in 5 rows or 2 rows.**
- Direct the student to the equation in Stimulus 8a. Communicate the equation.
- Direct the student to each answer choice in Stimulus 8b.
- Communicate: Find the pair of numbers that completes the equation.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds $6$ and $15$ in	-	mark <b>A</b> for question 8 and move to question 9.	
Stimulus 8b,			
If the student does not find $6$ and $15$ in	-	replicate the initial presentation instructions.	
Stimulus 8b,			
After the teacher repeats the instructions, if the student finds $6$ and $15$ in Stimulus 8b,	-	mark <b>B</b> for question 8 and move to question 9.	
After the teacher repeats the instructions, if the student does not find $\boxed{6}$ and $\underbrace{15}$ in Stimulus 8b,	-	mark <b>C</b> for question 8 and move to question 9.	

- Present Stimulus 9.
- *Direct* the student to Stimulus 9. *Communicate:* **A student buys a cap for \$12.00 and a T-shirt for \$24.00.**
- Communicate: Find the T-shirt that is two times the price of the cap.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the T-shirt,	-	mark <b>A</b> for question 9 and move to question 10.	
If the student does not find the T-shirt,	-	<ul> <li>remove the stimulus;</li> <li>wait at least five seconds; and</li> <li>replicate the initial presentation instructions.</li> </ul>	
After the five-second wait time, if the student finds the T-shirt,	-	mark <b>B</b> for question 9 and move to question 10.	
After the five-second wait time, if the student does not find the T-shirt,		mark <b>C</b> for question 9 and move to question 10.	

- Present Stimulus 10a and 10b.
- *Direct* the student to Stimulus 10a. *Communicate:* **A student buys a T-shirt that is two times the price of the cap.**
- *Direct* the student to each answer choice in Stimulus 10b. *Communicate:* These shoes have a price of \$24.00. This bracelet has a price of \$12.00.
- Communicate: Find the item that has a price of \$24.00.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the shoes,	-	mark <b>A</b> for question 10 and move to question 11.	
If the student does not find the shoes,	-	<ul> <li>model the desired student action by finding the shoes and <i>communicate</i> "These shoes have a price of \$24.00"; and</li> <li>replicate the initial presentation instructions.</li> </ul>	
After teacher modeling, if the student finds the shoes,		mark <b>B</b> for question 10 and move to question 11.	
After teacher modeling, if the student does not find the shoes,		mark <b>C</b> for question 10 and move to question 11.	

- Present Stimulus 11a and 11b.
- *Direct* the student to Stimulus 11a. *Communicate:* A student has \$100.00 to spend. She wants to spend her money on either a cell phone or DVDs.
- *Direct* the student to the first line on the graph. *Communicate:* This line shows that the student can buy one cell phone for \$100.00.
- *Direct* the student to the second line on the graph. *Communicate:* This line shows that the student can buy 10 DVDs for \$100.00.
- *Direct* the student to the stem and each answer choice in Stimulus 11b. *Communicate* the text in the stem and each answer choice.
- Communicate: Find the statement that matches what the graph shows.



#### Stimulus 11b

The student can buy -

 \* more DVDs than cell phones, because the cost of the cell phone is 10 times the cost of a DVD

**more cell phones than DVDs**, because the cost of the DVDs is 10 times the cost of a cell phone

the same number of cell phones as DVDs, because they both cost the same amount

Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the statement that begins "more DVDs than cell phones ,"	-	mark <b>A</b> for question 11 and move to question 12.	
		provide <b>one</b> of these allowable teacher assists to the student:	
If the student does not find the statement that begins "more DVDs than cell phones ,"	-	<ul> <li>Role-play purchasing one cell phone for \$100.00 and 10 DVDs for \$100.00. OR</li> <li>Highlight each DVD and cell phone on the graph.</li> </ul>	
		Replicate the initial presentation instructions.	
After the selected teacher assistance, if the student finds the statement that begins "more DVDs than cell phones ,"	-	mark <b>B</b> for question 11 and move to question 12.	
After the selected teacher assistance, if the student does not find the statement that begins "more DVDs than cell phones ,"	-	mark <b>C</b> for question 11 and move to question 12.	

- *Present* Stimulus 12a and 12b. *Communicate:* A student is buying sports drinks at a store and wants the better deal. The student knows that to get the better deal, he needs to spend less money per bottle.
- Direct the student to Stimulus 12a. Communicate: A 10-pack of sports drinks costs \$20.00. A
   5-pack of sports drinks costs \$15.00.
- *Direct* the student to each answer choice in Stimulus 12b. *Communicate* the text in each answer choice.
- Communicate: Find the statement that tells which pack of sports drinks is a better deal because of a lower cost per bottle.

	E Dl.	
10-Pack	5-Pack	
	= \$15.00	
= \$20.00	φ10.00	
The 5-pack is a be each bottle costs :	tter deal, because \$3.00.	
The 5-pack is a better deal, because \$15.00 is less than \$20.00.		
*		
The 10-pack is a better deal, because each bottle costs \$2.00.		
	10-Pack 10-Pack 10-Pack = \$20.00 The 5-pack is a be each bottle costs a The 5-pack is a be \$15.00 is less than The 10-pack is a be each bottle costs a	10-Pack5-PackImage: Description of the second seco

Scoring Instructions				
Student Action		Test Administrator Action		
If the student finds the statement "The 10-pack is a better deal, because each bottle costs \$2.00,"	-	mark <b>A</b> for question 12 and move to question 13.		
If the student does not find the statement "The 10-pack is a better deal, because each bottle costs \$2.00,"	-	replicate the initial presentation instructions.		
After the teacher repeats the instructions, if the student finds the statement "The 10-pack is a better deal, because each bottle costs \$2.00,"	➡ mark <b>B</b> for question 12 and move to question 13.			
After the teacher repeats the instructions, if the student does not find the statement "The 10-pack is a better deal, because each bottle costs \$2.00,"		mark <b>C</b> for question 12 and move to question 13.		

- Present Stimulus 13.
- *Direct* the student to Stimulus 13. *Communicate:* This is a table of numbers. In each row, the same factor is used one more time to get the numbers in the second column.
- Communicate: Find the table of numbers.

Stimulus 13			
	* 2	2	
	2 × 2	4	
	2 × 2 × 2	8	

Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the table,	-	mark <b>A</b> for question 13 and move to question 14.	
If the student does not find the table,	-	<ul> <li>remove the stimulus;</li> <li>wait at least five seconds; and</li> <li>replicate the initial presentation instructions.</li> </ul>	
After the five-second wait time, if the student finds the table,	-	mark <b>B</b> for question 13 and move to question 14.	
After the five-second wait time, if the student does not find the table,	-	mark <b>C</b> for question 13 and move to question 14.	

- Present Stimulus 14a and 14b.
- *Direct* the student to Stimulus 14a. *Communicate:* This is a table of numbers where the number two is being used as a factor one more time in each row.
- Direct the student to each answer choice in Stimulus 14b.
- Communicate: Find the column that shows how the same factor is used one more time in each row.

Stimulus 14a			
	2	2	
	2 × 2	4	
	2 × 2 × 2	8	
Stimulus 14b			
	2	* 2	
	2 + 2	2 × 2	
	2 + 2 + 2	2 × 2 × 2	

Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the column with 2, $2 \times 2$ , and $2 \times 2 \times 2$ ,	-	mark <b>A</b> for question 14 and move to question 15.	
If the student does not find the column with 2, $2 \times 2$ , and $2 \times 2 \times 2$ ,		<ul> <li>model the desired student action by finding the column with 2, 2 × 2, and 2 × 2 × 2 and communicate "This is the column that shows how the same factor is used one more time in each row"; and</li> <li>replicate the initial presentation instructions.</li> </ul>	
After teacher modeling, if the student finds the column with 2, $2 \times 2$ , and $2 \times 2 \times 2$ ,	-	mark <b>B</b> for question 14 and move to question 15.	
After teacher modeling, if the student does not find the column with 2, $2 \times 2$ , and $2 \times 2 \times 2$ ,	-	mark <b>C</b> for question 14 and move to question 15.	

- Present Stimulus 15a and 15b.
- *Direct* the student to Stimulus 15a. *Communicate:* This table shows a number pattern. The numbers in the fourth row of this table are missing.
- Direct the student to each answer choice in Stimulus 15b.
- Communicate: Find the numbers that belong in the fourth row of the table.

Stimulus 15a		
	3	3
	3 × 3	9
	3 × 3 × 3	27
Stimulus 15b		
	3 × 3 × 3 × 3 × 3	243
	* 3 × 3 × 3 × 3	81
	3 + 3 + 3 + 3	12

Scoring Instructions		
Student Action		Test Administrator Action
If the student finds the row with " $3 \times 3 \times 3 \times 3$ " and "81,"	-	mark <b>A</b> for question 15 and move to question 16.
If the student does not find the row with " $3 \times 3 \times 3 \times 3$ " and "81,"	-	<ul> <li>provide one of these allowable teacher assists to the student:</li> <li>Have the student identify the pattern in the first column of the table. OR</li> <li>Highlight the numbers on the right side of the table. OR</li> <li>Highlight the operation symbols on the left side of the table.</li> </ul>
		Replicate the initial presentation instructions.
After the selected teacher assistance, if the student finds the row with " $3 \times 3 \times 3 \times 3$ " and "81,"		mark <b>B</b> for question 15 and move to question 16.
After the selected teacher assistance, if the student does not find the row with $"3 \times 3 \times 3 \times 3"$ and "81,"		mark <b>C</b> for question 15 and move to question 16.

- Present Stimulus 16.
- Communicate: A rancher had deer on his land. The number of deer doubled each year.
- *Direct* the student to each answer choice.
- Communicate: Find the table that shows that the number of deer doubled each year.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the table with the number of deer equal to 2, 4, and 8,	-	mark <b>A</b> for question 16 and move to question 17.	
If the student does not find the table with the number of deer equal to 2, 4, and 8,	-	replicate the initial presentation instructions.	
After the teacher repeats the instructions, if the student finds the table with the number of deer equal to 2, 4, and 8,	-	mark <b>B</b> for question 16 and move to question 17.	
After the teacher repeats the instructions, if the student does not find the table with the number of deer equal to 2, 4, and 8,	-	mark <b>C</b> for question 16 and move to question 17.	

- Present Stimulus 17.
- *Direct* the student to Stimulus 17. *Communicate:* This is one row of a table that shows how the side length and the area of a square are related.
- *Direct* the student to the row of data in the table. *Communicate:* A square has a side length of 2 feet. 2 feet × 2 feet equals an area of 4 square feet.
- Communicate: Find the table that shows 2 × 2.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds the table,	-	mark <b>A</b> for question 17 and move to question 18.	
If the student does not find the table,	-	<ul> <li>remove the stimulus;</li> <li>wait at least five seconds; and</li> <li>replicate the initial presentation instructions.</li> </ul>	
After the five-second wait time, if the student finds the table,	-	mark <b>B</b> for question 17 and move to question 18.	
After the five-second wait time, if the student does not find the table,	-	mark <b>C</b> for question 17 and move to question 18.	

- Present Stimulus 18a and 18b.
- *Direct* the student to Stimulus 18a. *Communicate:* The table now has more rows that show how the side lengths and the areas of squares are related.
- *Direct* the student to the first row of data in the table. *Communicate:* **The first row of the table shows that a square has a side length of 2 feet. 2 feet × 2 feet equals an area of 4 square feet.**
- *Direct* the student to the second row of data in the table. *Communicate:* **The second row of the table shows that a square has a side length of 3 feet. 3 feet x 3 feet equals an area of 9 square feet.**
- *Direct* the student to the empty triangle in the third row of the table. *Communicate:* **The side length is missing from this row. 4 feet × 4 feet equals an area of 16 square feet.**
- Communicate: Find the side length that is missing.



Scoring Instructions		
Student Action		Test Administrator Action
If the student finds "4" in Stimulus 18b,	-	mark <b>A</b> for question 18 and move to question 19.
If the student does not find "4" in Stimulus 18b,		<ul> <li>model the desired student action by finding "4" in Stimulus 18b and <i>communicate</i> "Four feet is the side length that is missing"; and</li> <li>replicate the initial presentation instructions.</li> </ul>
After teacher modeling, if the student finds "4" in Stimulus 18b,	-	mark <b>B</b> for question 18 and move to question 19.
After teacher modeling, if the student does not find "4" in Stimulus 18b,	-	mark <b>C</b> for question 18 and move to question 19.

- Present Stimulus 19a and 19b.
- *Direct* the student to Stimulus 19a. *Communicate:* The areas of these three squares are given. The side lengths for the first two squares are given. The side length is missing for the square that has an area of 25 square feet.
- Direct the student to each answer choice in Stimulus 19b.
- Communicate: Find the equation that can be used to find the side length of the square with an area of 25 square feet.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds $\triangle \times \triangle = 25$ ,	-	mark <b>A</b> for question 19 and move to question 20.	
If the student does not find $\triangle \times \triangle = 25$ ,	-	provide <b>one</b> of these allowable teacher assists to the student:	
		<ul> <li>Highlight the length and width on each square in Stimulus 19a. OR</li> </ul>	
		<ul> <li>Have the student identify the formula for the area of a square. OR</li> </ul>	
		<ul> <li>Have the student try out the missing side length in each answer choice. OB</li> </ul>	
		<ul> <li>Allow the student to use a calculator or multiplication chart.</li> </ul>	
		Replicate the initial presentation instructions.	
After the selected teacher assistance, if the student finds $\triangle \times \triangle = 25$ ,	-	mark <b>B</b> for question 19 and move to question 20.	
After the selected teacher assistance, if the student does not find $\triangle \times \triangle = 25$ ,	-	mark <b>C</b> for question 19 and move to question 20.	

- Present Stimulus 20a and 20b.
- *Direct* the student to the area of each square in Stimulus 20a. *Communicate* the area of each square.
- *Direct* the student to one side of each of the first two squares. *Communicate:* This is the side length of the first square. This is the side length of the second square.
- *Direct* the student to one side of the third square. *Communicate:* The side length of the square with an area of 36 square feet is missing.
- Direct the student to each answer choice in Stimulus 20b.
- Communicate: Find the side length of the square with an area of 36 square feet.



Scoring Instructions			
Student Action		Test Administrator Action	
If the student finds "6 feet,"	-	mark <b>A</b> for question 20.	
If the student does not find "6 feet,"		replicate the initial presentation instructions.	
After the teacher repeats the instructions, if the student finds "6 feet,"		mark <b>B</b> for question 20.	
After the teacher repeats the instructions, if the student does not find "6 feet,"		mark <b>C</b> for question 20.	

TEST ADMINISTRATOR MANUAL

STAAR ALTERNATE 2 Algebra I April 2016