

M111 Modeling with Data: One-Variable Measurement Data Badge

Portfolio: A Showcase of Your Learning

Section 1: Required Tasks

Show off what you did! Submit work (or another agreed upon way of showing your thinking) for each of the tasks listed below.

	I Can Statements	Required Tasks	Student Reflection: What new learning does the task showcase?
111.a	Engage in the modeling cycle.	<ul style="list-style-type: none"> XQ Math Badging Performance Assessment: M111 Imagining a Better Meal Experience OR IM Algebra I: Unit 2 Modeling Prompt 2: Display Your Data 	
111.c	Interpret differences in shape, center, and spread in the context of data sets, accounting for the possible effects of extreme data points (outliers).	<ul style="list-style-type: none"> IM Algebra I: Unit 1 Lesson 2 Activities 1 & 2: Tomato Plans 	
111.d	Use measures of center and variability to describe one-variable measurement data.	<ul style="list-style-type: none"> IM Algebra I: Unit 1 Lesson 2 Activity 2: Tomato Plants 	
111.f	Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread	<ul style="list-style-type: none"> IM Algebra I: Unit 1 Lesson 13 Activity 2: Interpreting Measures of Center and Variability 	

	(interquartile range, standard deviation) of two or more different data sets.		
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Section 2: Choose Your Favorites

Show off your favorite work! For each expectation, SELECT at least one task from each group to demonstrate what you are learning. Which work do you feel best showcases all of the math you have learned?

	I Can Statements	Select at least one from each set	Student Reflection: What new learning does the task showcase?
111.b	Develop statistical questions in the course of modeling with one-variable measurement data.	<ul style="list-style-type: none"> IM Algebra I: Unit 1 Lesson 1 Cool-down: Categorizing Questions IM Algebra I: Unit 1 Lesson 16 Warm-up: Experimental Conditions 	
111.c	Interpret differences in shape, center, and spread in the context of data sets, accounting for the possible effects of extreme data points (outliers).	(Optional if additional evidence is needed) <ul style="list-style-type: none"> IM Algebra I: Unit 1 Lesson 3 Activity 1: Data Displays 	
111.d	Use measures of center and variability to describe one-variable measurement data.	(Optional if additional evidence is needed) <ul style="list-style-type: none"> IM Algebra I: Unit 1 Lesson 5 Activity 1: Part 1 	

	I Can Statements	Select at least one from each set	Student Reflection: What new learning does the task showcase?
111.e	Generate a random sample in the course of modeling with one-variable measurement data.	<ul style="list-style-type: none"> • None 	
111.f	Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets.	(Optional if additional evidence is needed) <ul style="list-style-type: none"> • IM Algebra I: Unit 1 Lesson 11 Cool-down: Which Menu? 	
111.g	Estimate population percentages by using a normal curve to approximate a data distribution.	<ul style="list-style-type: none"> • None 	