



Released Items

Grade 6 Math

AzMERIT

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Prepared by the Arizona Department of Education and the American Institutes for Research®



About the Released Items

The *AzMERIT Released Items* provides details about the items, student response types, correct responses, and related scoring considerations for released AzMERIT test items.

Within this guide, each item is presented with the following information:

- Cluster
- Content Standard
- Depth of Knowledge (DOK)
- Static presentation of the item
- Static presentation of student response field (when appropriate)
- Answer key, rubric or exemplar
- Applicable score point(s) for each item
- Option rationales (when applicable)

The items included in this guide are representative of the kinds of items that students can expect to experience when taking the computer-based test for AzMERIT Grade 6 Math.

Grade 6 Math Released Items

Cluster	Content Standard	DOK
6.RP.A	6.RP.A.3	3

Jasmine is going to make a berry salad for a party. Her salad will include only blueberries, raspberries, and strawberries.

She wants the ratio of blueberries to strawberries to be 2:5 and the ratio of blueberries to all berries to be 4:23.

How many of each type of berry can she put into the salad?

blueberries:

raspberries:

strawberries:

← → ↶ ↷ ✖

1	2	3
4	5	6
7	8	9
	0	
.	-	=

(1 Point) Student entered any three integer values that resulted in a blueberry to strawberry ratio of 2:5, and a blueberry to all berry ratio of 4:23.

Cluster	Content Standard	DOK
6.EE.A	6.EE.A.2	2

Complete the table to show the value of each expression when $x = -2$.

Expression	Value
x	-2
$ x $	<input type="text" value="2"/>
$- x $	<input type="text" value="-2"/>

(1 Point) Student entered both correct values.

Cluster	Content Standard	DOK
6.NS.C	6.NS.C.5	2

Select all the numbers that could represent a temperature that is above zero degrees Fahrenheit.

- 5
- 0.1
- 0
- 65.2
- 92

(1 Point) Student selected both correct options.

Option Rationales:

Choice A: The student may have focused on the absolute value of the number and not the fact that it is negative, or below zero.

Choice B: The student may have focused on the absolute value of the number and not the fact that it is negative, or below zero.

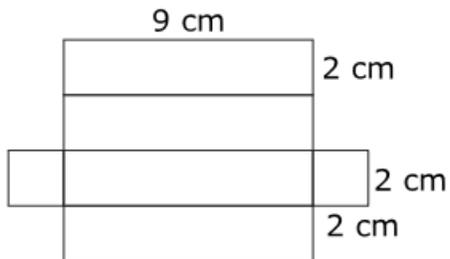
Choice C: The student may have thought that "above zero" includes zero.

Choice D: Key - The student chose an example of a temperature that is above zero.

Choice E: Key - The student chose an example of a temperature that is above zero.

Cluster	Content Standard	DOK
6.G.A	6.G.A.4	2

A net representing a three-dimensional figure is shown, with lengths in centimeters (cm).



What is the surface area, in square centimeters (cm^2), of the figure?

 cm^2

← → ↶ ↷ ✖

1	2	3
4	5	6
7	8	9
	0	
.	-	$\frac{\square}{\square}$

(1 Point) Student entered **80** or any equivalent value.

Cluster	Content Standard	DOK
6.SP.A	6.SP.A.1	1

Select all of the statistical questions.

- What is the teacher's favorite fruit?
- What is the favorite fruit of the students in the class?
- Do more students in the class prefer bananas or apples?
- Do most of the students in the class like strawberries?
- How many pieces of fruit did each student in the class eat this week?

(1 Point) Student selected both correct options.

Option Rationales:

Choice A: The student recognized that there are a number of possible responses but did not recognize that this is not statistical since this is only asking one person.

Choice B: Key - The student correctly identified that this question is statistical because each student has a different opinion and the favorite fruit of all students can only be determined by collecting data and analyzing the results.

Choice C: The student may have thought that this question could have various responses, but the answer to this question is either apples or bananas, which means there is no variability.

Choice D: The student may have thought that there would be different responses to this question but did not realize that the answer is a set number of students who like strawberries.

Choice E: Key - The student correctly identified that this question is statistical because there is variability in the responses from the students.