Released Items
Grade 7 Math
AzM2

Updated September 2019

Prepared by the Arizona Department of Education
About the Released Items

The AzM2 Released Items provides details about the items, student response types, correct responses, and related scoring considerations for released AzM2 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 AzM2 Grade 7 Math.

For items that that permit the use of a calculator, a calculator icon is indicated.
Grade 7 Math Released Items

<table>
<thead>
<tr>
<th>Cluster</th>
<th>Content Standard</th>
<th>DOK</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.SP.A</td>
<td>7.SP.A.2</td>
<td>2</td>
</tr>
</tbody>
</table>

Caitlin wants to find out how many of the 735 students at her school have a bike. She surveys a random sample of 105 students and finds that 57 of them have a bike.

Based on Caitlin’s survey, how many students at her school should she expect to have a bike?

399

(1 Point) Student entered 399 or 400.
Kara creates a scale drawing of a fountain using the scale 7 cm = 2 ft. A sketch of Kara’s scale drawing is shown. The diameter of the scale drawing is 28 cm.

What is the actual diameter of the fountain?

(1 Point) Student entered 8 or any equivalent value.
A sandwich shop offers a 15% discount when a customer spends at least $75. The shop sells sandwiches for $8.25 each and cookies for $1.45 each.

Juliana buys 8 sandwiches.

What is the least number of cookies that Juliana can buy and still get the discount?

(1 Point) Student entered 7 or any equivalent value.
Marsha’s class is planting 120 trees as part of a community volunteer project. The class plants pine trees and oak trees in a ratio of 3 to 1.

How many pine trees does Marsha’s class plant?

(1 Point) Student entered 90 or any equivalent value.
What is the value of $-3\left(\frac{4}{3} - 9\right)$?

23

(1 Point) Student entered 23 or any equivalent value.