Released Items
Grade 5 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 5 Math.

Grade 5 Math Released Items

Cluster	Content Standard	DOK
5.NBT.B	5.NBT.B.7	3

A group of 4 friends orders from the menu shown.

They spend a total of $9.55. Two of the friends each order a salad and a juice for lunch.
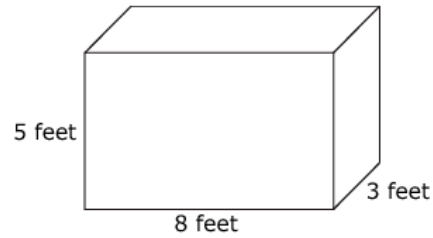
Complete the table to show the remaining number of items that could have been ordered by the 2 other friends.

Item	Cost	Number Ordered
Hot dog	$1.75	1
Pizza slice	$2.25	1
Salad	$1.30	
Juice	$0.85	
Water	$0.50	1
Milk	$0.75	1

(1 Point) Student entered any combination of orders that resulted in a total price of $5.25; OR any combination of orders that resulted in a total price of $9.55, and the number of salad and juice are each greater than or equal to 2.

Cluster	Content Standard	DOK
5.MD.C	5.MD.C.5	2

Matt fills a large box with unit cubes. The box is a right rectangular prism with the measurements shown.

5 feet

3 feet

8 feet

He places 30 unit cubes in the box, each measuring 1 cubic foot.

How many more unit cubes does Matt need to fill the box?

90

1	2	3
4	5	6
7	8	9
0	.	▯/▯

(1 Point) Student entered **90** or any equivalent value.

Cluster	Content Standard	DOK
5.G.B	5.G.B.3	2

Select the boxes to indicate whether each statement is never true, sometimes true, or always true.

	Never true	Sometimes true	Always true
Parallelograms have 4 congruent sides.	☐	✔	☐
Parallelograms have 2 pairs of parallel sides.	☐	☐	✔
Squares have 4 right angles.	☐	☐	✔
Rectangles have 4 congruent sides.	☐	✔	☐

(1 Point) Student selected the correct box for each statement.

Cluster	Content Standard	DOK
5.NF.A	5.NF.A.2	2

Randy has a pitcher of pineapple juice that is $\frac{7}{12}$ full. He needs the pitcher to be $\frac{3}{4}$ full.

What fraction of the pitcher does Randy still need to fill with pineapple juice?
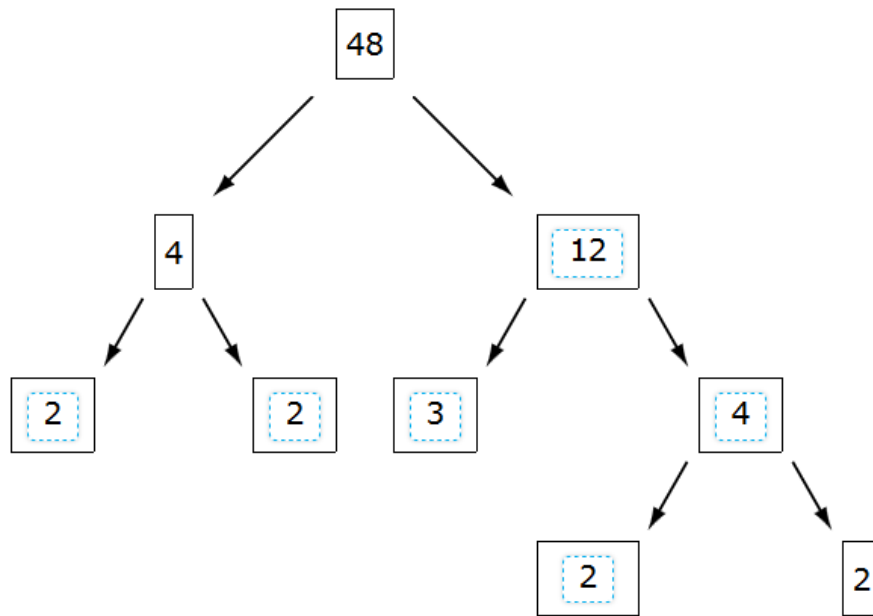
$$\frac{2}{12}$$

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

(1 Point) Student entered $\frac{2}{12}$ or any equivalent fraction.

Cluster	Content Standard	DOK
5.OA.B	5.OA.B.4	2

Joanna decomposes 48 into its prime factors using a factor tree, as shown.

Drag numbers to the empty boxes to fill in the missing numbers in Joanna's factor tree.

(1 Point) Student correctly completed the factor tree. The student could also have factored 12 as 2 x 6, and 6 as 3 x 2.