

Azmeria Arizona's Statewide Achievement Assessment for English Language Arts and Mathematics

Computer-Based Sample Test Scoring Guide Grade 3 Math AzMERIT

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





About the Sample Test Scoring Guide

The AzMERIT Sample Test Scoring Guides provide details about the items, student response types, correct responses, and related scoring considerations for AzMERIT Sample Test items.

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

- Item number
- Domain
- Cluster
- Content Standard
- Math Practices
- 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

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 3 Math.

Grade 3 Math Sample Test

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
1	OABT	3.OA.D	3.OA.D.8	1, 2, 4, 5	3

Carla bought 5 packages of stickers with 10 stickers in each package. Carla gave 30 stickers to her friends.

Create an equation to represent the number of stickers, s, that Carla has left. Use s in your equation.



(1 Point) Student entered $5 \times 10 - 30 = s$ or any equivalent equation.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
2	OABT	3.NBT.A	3.NBT.A.1	5, 7, 8	2

Select all of the numbers that round to 710 when rounded to the nearest ten.
700
703
706
708
720

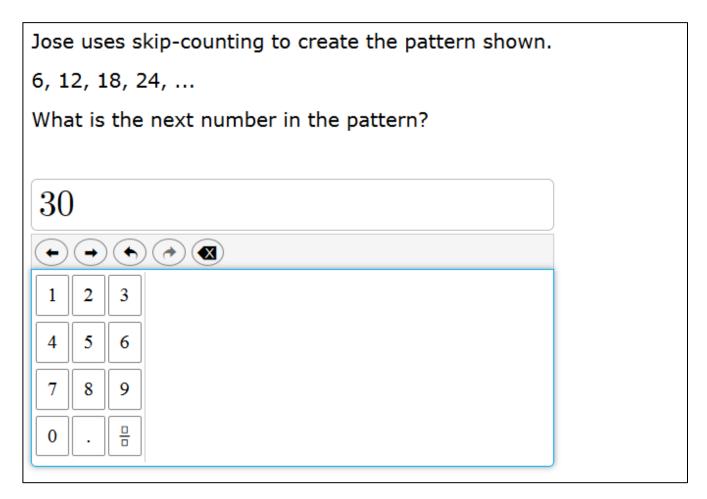
(1 Point) Student checked both correct options.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
3	MDG	3.MD.A	3.MD.A.1	1, 4, 6	2

Martin arrived at the library at 3:16 p.m. He left the library at 3:42 p.m. How many minutes did Martin spend at the library? 26•) (�) + 3 1 2 4 5 6 8 7 9 0 .

(1 Point) Student entered 26 or any equivalent value.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
4	OABT	3.OA.D	3.OA.D.9	1, 2, 3, 6, 7	2

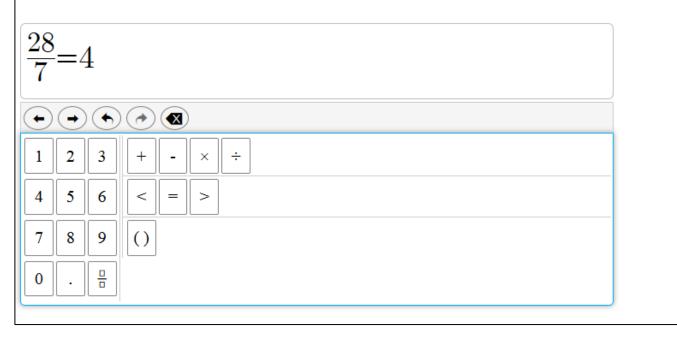


(1 Point) Student entered 30 or any equivalent value.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
5	OABT	3.OA.A	3.OA.A.3	1, 4, 7	3

Henry has 28 pennies. He wants to split the pennies into equal piles.

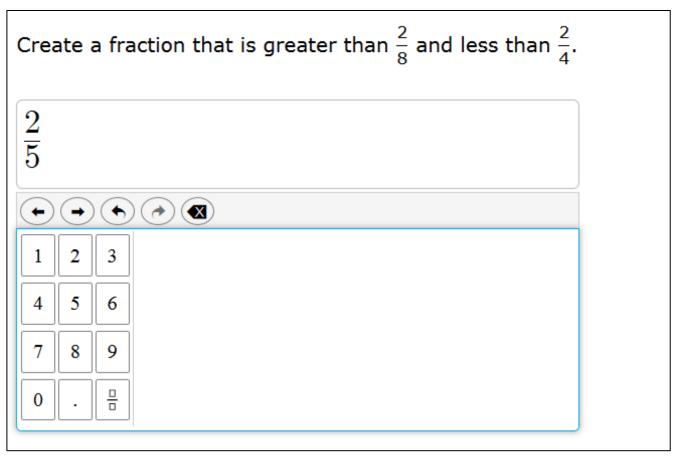
Create a division equation that models a way he could do this.



(1 point) Student entered $\frac{28}{7} = 4$ or any equation in the form $\frac{28}{a} = b$ or

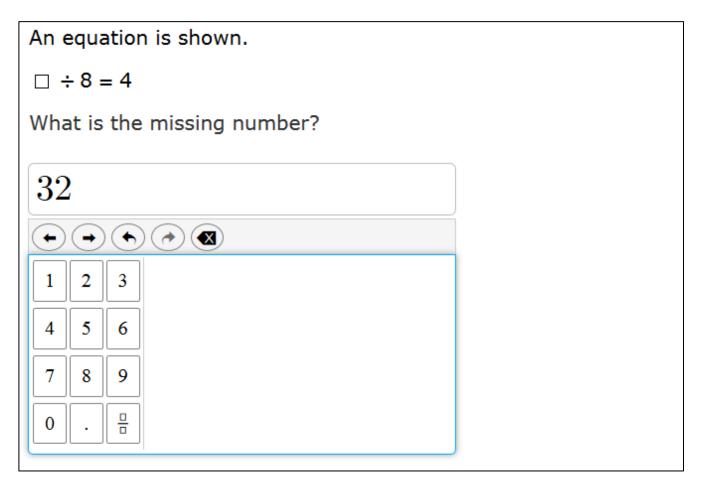
 $b = \frac{28}{a}$, where *a* and *b* are positive integers.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
6	NOF	3.NF.A	3.NF.A.3	1, 2, 3, 4, 6, 7, 8	3



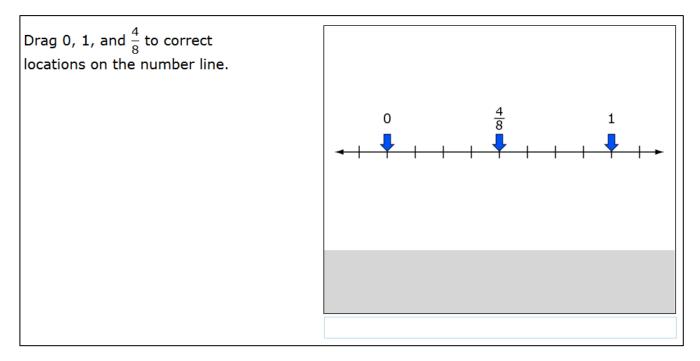
(1 point) Student entered $\frac{2}{5}$ or any fraction greater than $\frac{2}{8}$ and less than $\frac{2}{4}$.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
7	OABT	3.OA.A	3.OA.A.4	1, 2, 6, 7	2



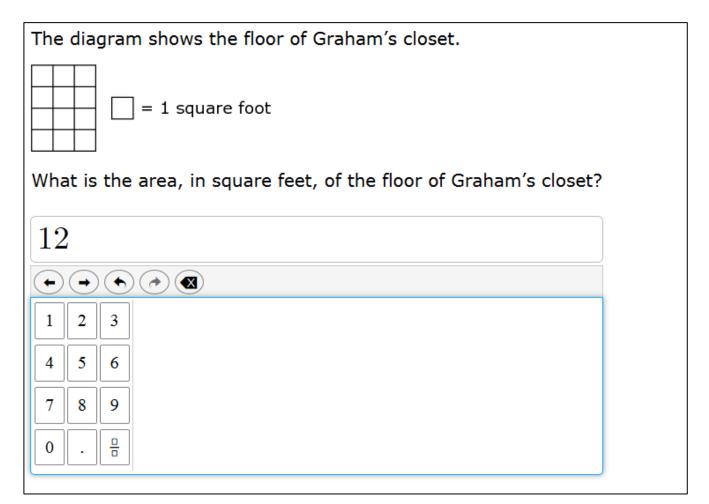
(1 Point) Student entered 32 or any equivalent value.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
8	NOF	3.NF.A	3.NF.A.2	1, 4, 7	3



(1 point) Student created the correct number line.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
9	MDG	3.MD.C	3.MD.C.6	2, 4, 5, 6	2



(1 point) Student entered 12 or any equivalent value.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
10	MDG	3.G.A	3.G.A.1	5, 6, 7	2

Two statements that describe a shape are shown.

- All of the sides have the same length.
- It is a quadrilateral.

Select all of the shapes for which both statements are always true.

- 🗹 square
- hexagon
- rhombus
- rectangle
- equilateral triangle
- (1 Point) Student selected the two correct options.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
11	OABT	3.NBT.A	3.NBT.A.2	2, 7, 8	2

Enter a number to complet	e each equation.
9 - 3 = 6	
90 - 30 = 60	
900 - 300 = 600	

(1 point) Student entered three correct values.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
12	OABT	3.OA.A	3.OA.A.3	1, 4, 7	2

Jacob has 18 DVDs and 3 shelves to put them on. He puts the same number of DVDs on each shelf.

How many DVDs are on each shelf?

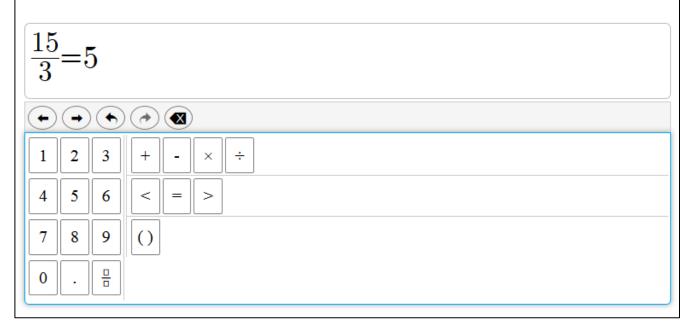


(1 point) Student entered 6 or any equivalent value.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
13	OABT	3.OA.A	3.OA.A.3	1, 4, 7	3

Tommy has 15 toy cars. He wants to put the toy cars into equal groups. He puts more than 1 car in each group.

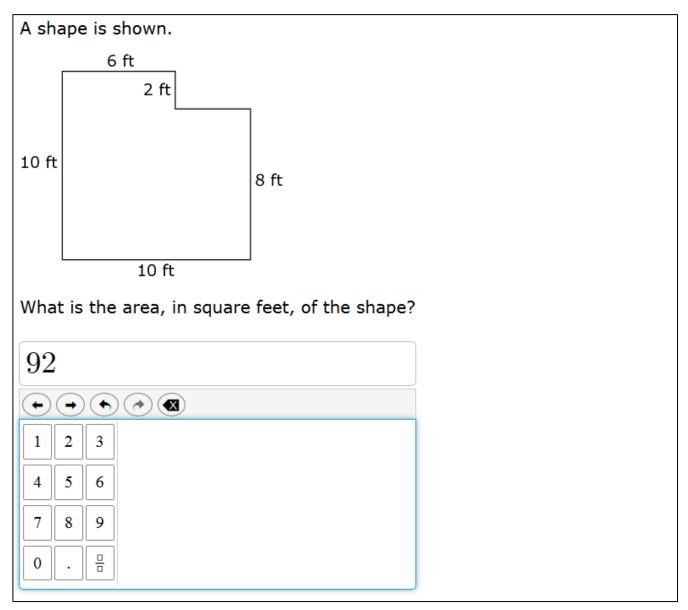
Create a multiplication or division equation that models the number of cars in each group.



(1 point) Student entered $\frac{15}{3} = 5$ or any equation in the form $\frac{15}{a} = b$ or

 $b = \frac{15}{a}$, where a and b are both positive integers.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
14	MDG	3.MD.C	3.MD.C.7	1, 2, 4, 5, 6	3



(1 point) Student entered 92 or any equivalent value.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
15	NOF	3.NF.A	3.NF.A.3	1, 2, 3, 4, 6, 7, 8	2

A comparison is shown. $\frac{1}{?} > \frac{1}{4}$ What whole number could be the missing denominator? $\mathbf{2}$ ⇒) (\clubsuit) + 1 2 3 4 5 6 7 8 9 -0

(1 point) Student entered a value of 1, 2, or 3.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
16	OABT	3.NBT.A	3.NBT.A.1	5, 7, 8	2

A student writes a number.

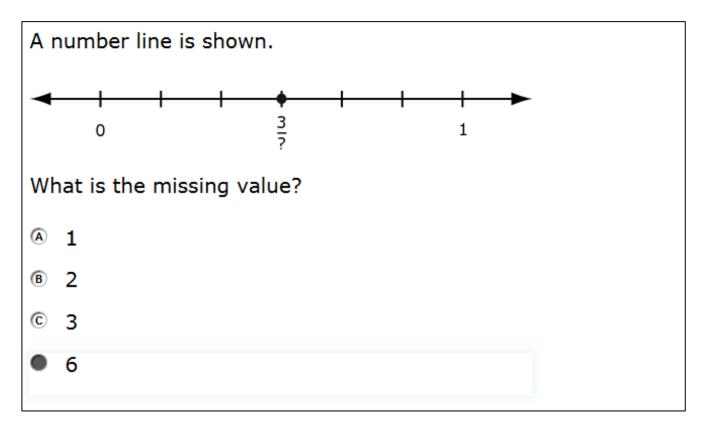
- The number is greater than 275.
- The number rounds to the same nearest ten as 275.

What is one possible value of the number?

276			
$\bullet \bullet \bullet$			
1 2 3 4 5 6			
7 8 9			
0.			

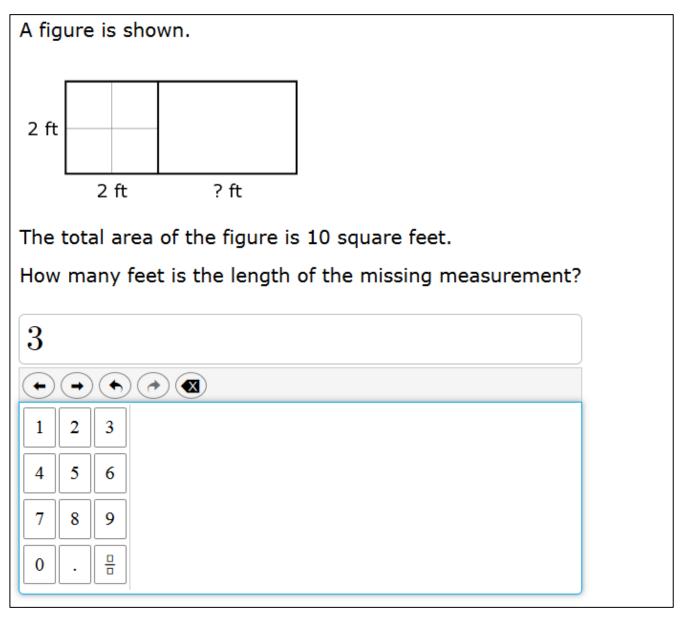
(1 point) Student entered 276 or any value greater than 275 and less than 285.

Item Number	Domain	Cluster	Content Standard	Math Practices	DOK
17	NOF	3.NF.A	3.NF.A.2	1, 4, 7	2



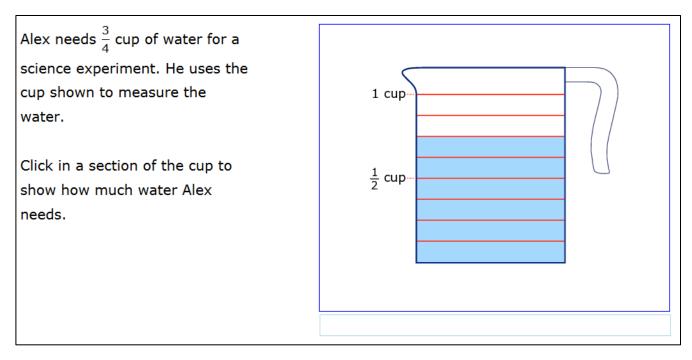
(1 Point)

Item Number	Domain	Cluster	Content Standard	Math Practices	DOK
18	MDG	3.MD.C	3.MD.C.7	1, 2, 4, 5, 6	3



(1 point) Student entered 3 or any equivalent value.

Item Number	Domain	Cluster	Content Standard	Math Practices	DOK
19	NOF	3.NF.A	3.NF.A.3	1, 2, 3, 4, 6, 7, 8	2



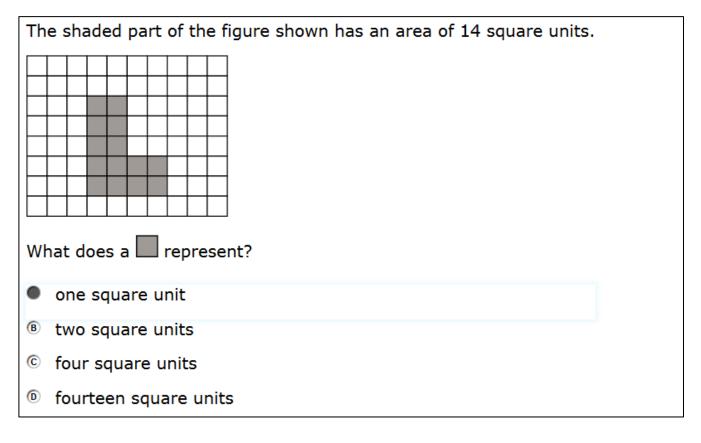
(1 point) Student created the correct equivalent fraction.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
20	OABT	3.OA.D	3.OA.D.8	1, 2, 4, 5	2

Sara rides her bike 3 days a week. She rides for 10 minutes each day. How many minutes does Sara spend riding her bike every 2 weeks? 60 $(\mathbf{A}) (\mathbf{A}) (\mathbf{A})$ + ⇒) 1 2 3 4 5 6 8 7 9 -0 .

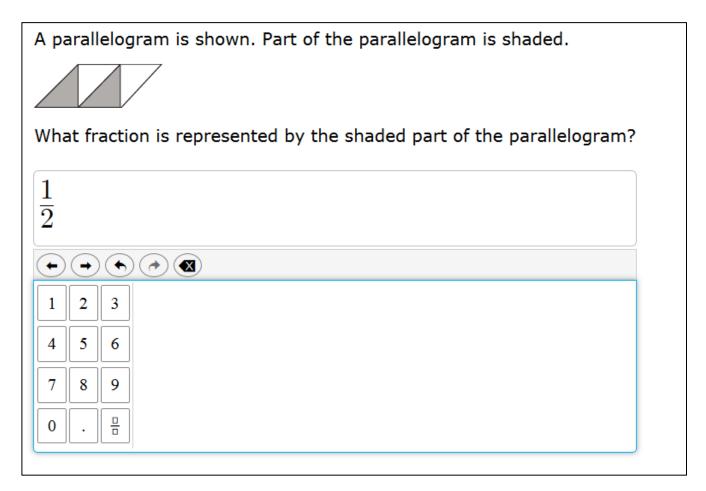
(1 point) Student entered 60 or any equivalent value.

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
21	MDG	3.MD.C	3.MD.C.5	2, 4, 5, 6	1



(1 Point)

ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
22	MDG	3.G.A	3.G.A.2	2, 4, 5	1



(1 point) Student entered $\frac{1}{2}$ or $\frac{2}{4}$.

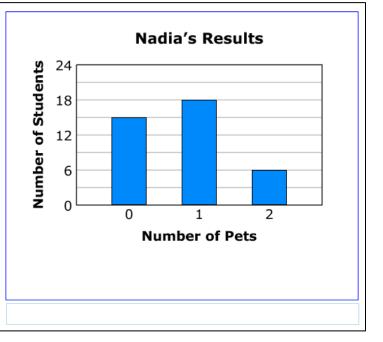
ltem Number	Domain	Cluster	Content Standard	Math Practices	DOK
23	MDG	3.MD.B	3.MD.B.3	1, 4, 6, 7	2

Nadia asks each student in her class how many pets he or she has. The results are shown in the table.

Nadia's Results

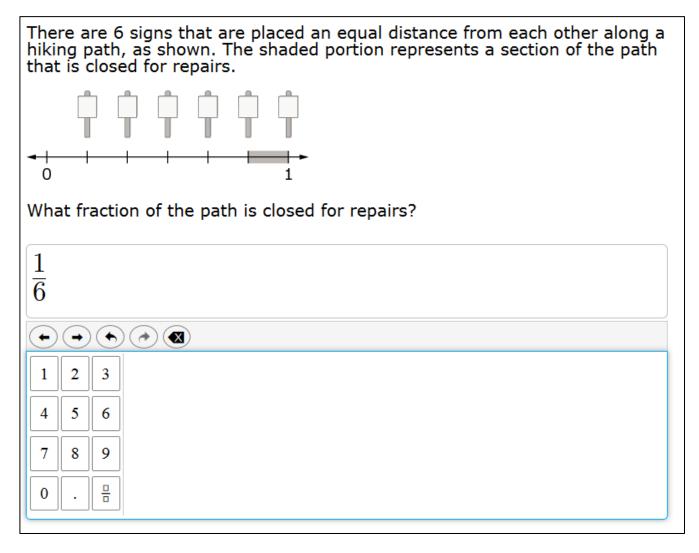
Number of Pets	Number of Students			
0	15			
1	18			
2	6			
Click between the lines to create				

Click between the lines to create a bar graph that shows Nadia's results.



(1 point) Student created a correct graph.

Item Number	Domain	Cluster	Content Standard	Math Practices	DOK
24	NOF	3.NF.A	3.NF.A.2	1, 4, 7	2



(1 point) Student entered $\frac{1}{6}$ or any equivalent fraction.