

AzM2

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

Computer-Based Sample Test Scoring Guide Grade 3 Math AzM2

Updated September 2019

Prepared by the Arizona Department of Education



About the Sample Test Scoring Guide

The AzM2 Sample Test Scoring Guides provide details about the items, student response types, correct responses, and related scoring considerations for AzM2 Sample Test items.

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

- Item number
- 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

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 3 Math.

Grade 3 Math Sample Test

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 1 | 3.OA.D | 3.OA.D.8 | 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. $5 \times 10 - 30 = s$



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

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 2 | 3.NBT.A | 3.NBT.A.1 | 2 |

| Se | elect all of the numbers that round to 710 when rounded to the nearest ten. |
|----|---|
| | 700 |
| | 703 |
| | 706 |
| | 708 |
| | 720 |

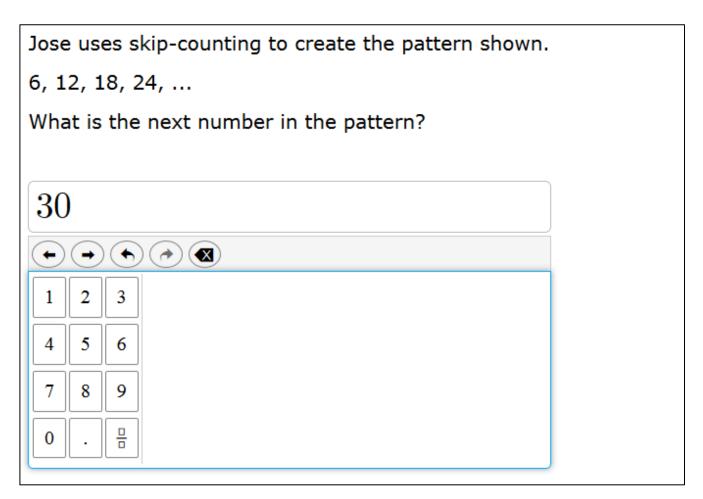
(1 Point) Student checked both correct options.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 3 | 3.MD.A | 3.MD.A.1a | 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 (\rightarrow) (\bigstar) + → 2 3 1 4 5 6 7 8 9 0

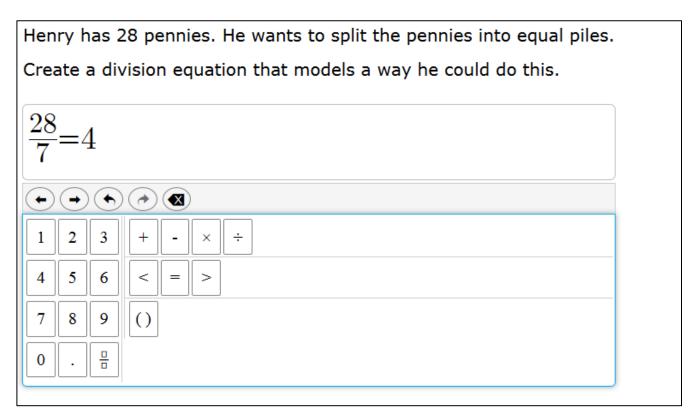
(1 Point) Student entered 26 or any equivalent value.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 4 | 3.OA.D | 3.OA.D.9 | 2 |



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

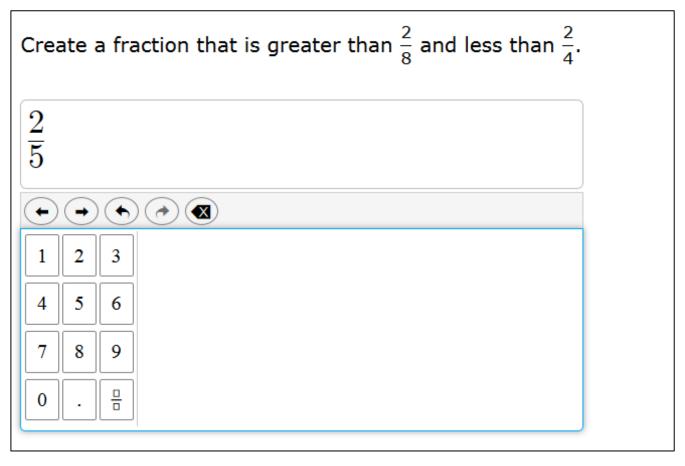
| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 5 | 3.OA.A | 3.OA.A.3 | 3 |

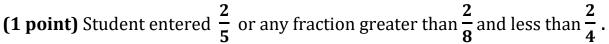


(1 point) Student entered $\frac{28}{7} = 4$ or any equation in the form $\frac{28}{a} = b$ or

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

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 6 | 3.NF.A | 3.NF.A.3 | 3 |



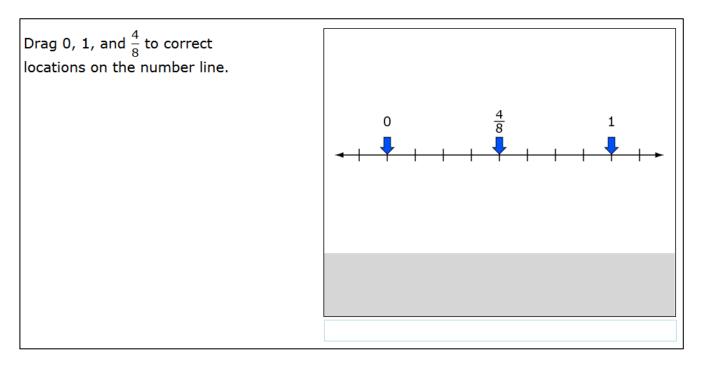


| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 7 | 3.OA.A | 3.OA.A.4 | 2 |

An equation is shown. $\Box \div 8 = 4$ What is the missing number? 32 $(\bullet) (\bullet) (\bullet)$ ⇒) + 2 1 3 5 4 6 7 8 9 0

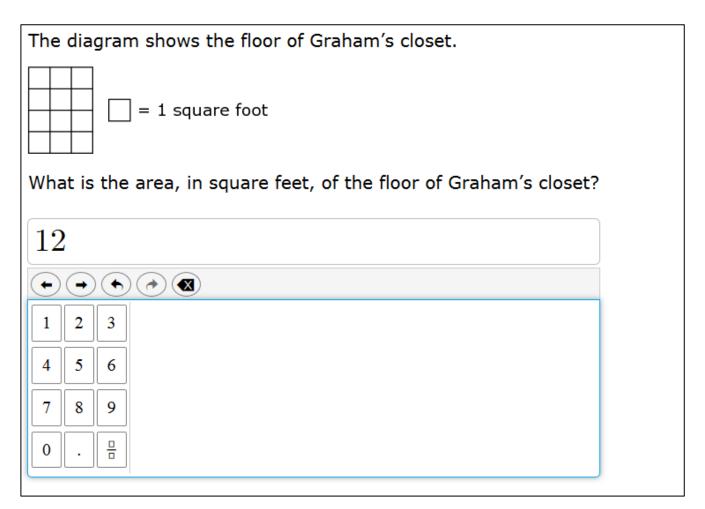
(1 Point) Student entered 32 or any equivalent value.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 8 | 3.NF.A | 3.NF.A.2 | 3 |



(1 point) Student created the correct number line.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 9 | 3.MD.C | 3.MD.C.6 | 2 |



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

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 10 | 3.G.A | 3.G.A.1 | 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.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 11 | 3.NBT.A | 3.NBT.A.2 | 2 |

| I | Enter a ni | umber to | complet | e each equation. |
|---|------------|----------|---------|------------------|
| | 9 – | 3 | = 6 | |
| | 90 — | 30 | = 60 | |
| | 900 — | 300 | = 600 | |

(1 point) Student entered three correct values.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 12 | 3.OA.A | 3.OA.A.3 | 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.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 13 | 3.OA.A | 3.OA.A.3 | 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.

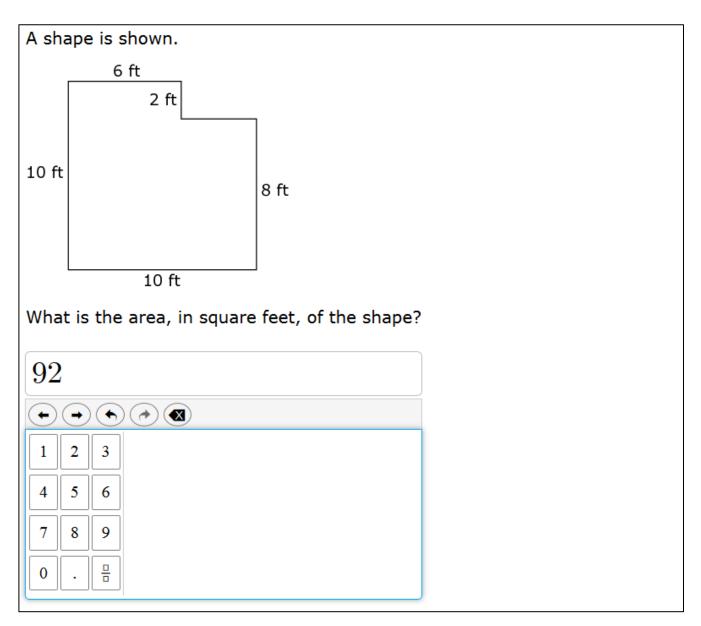
Create a multiplication or division equation that models the number of cars in each group.



(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.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 14 | 3.MD.C | 3.MD.C.7 | 3 |



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

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 15 | 3.NF.A | 3.NF.A.3 | 2 |

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

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

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 16 | 3.NBT.A | 3.NBT.A.1 | 2 |

A student writes a number.

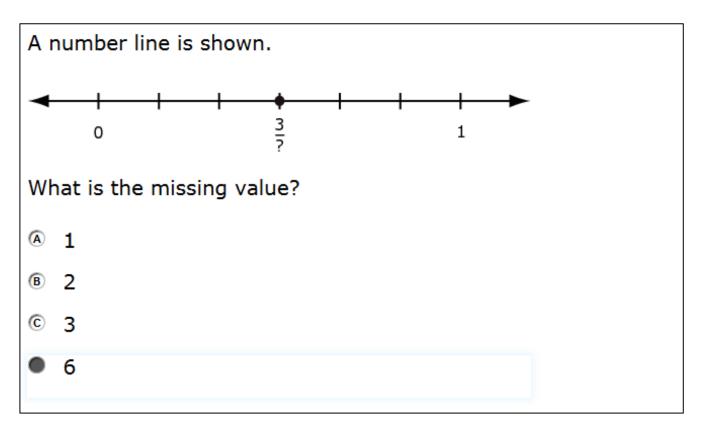
- The number is greater than 275.
- The number rounds to the same nearest ten as 275.

What is one possible value of the number?

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

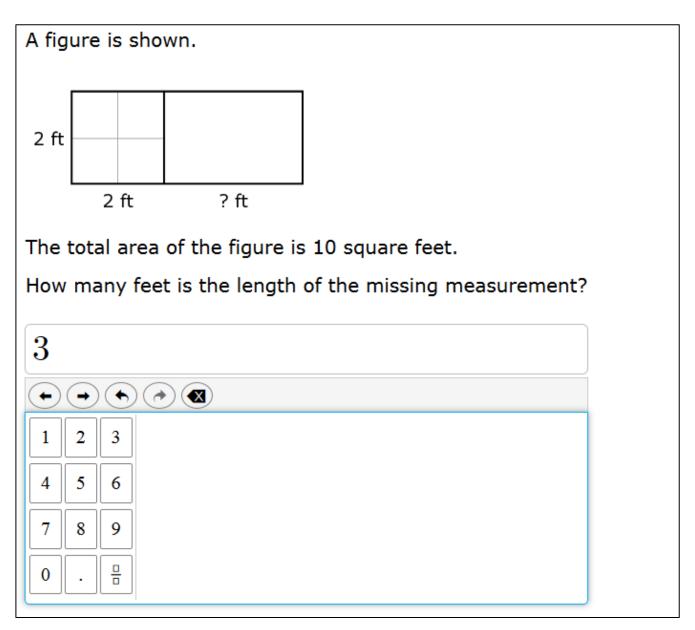
(1 point) Student entered 276 or any value greater than 275 and less than 285.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 17 | 3.NF.A | 3.NF.A.2 | 2 |



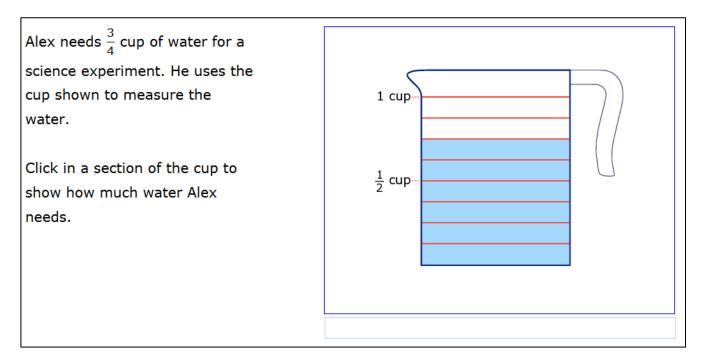
(1 Point) Student selected the correct option.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 18 | 3.MD.C | 3.MD.C.7 | 3 |



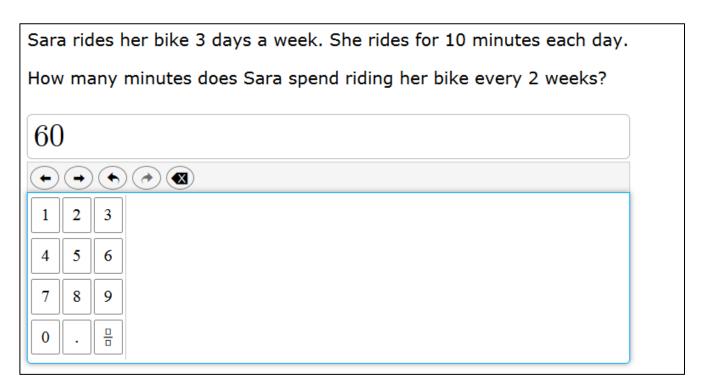
(1 point) Student entered 3 or any equivalent value.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 19 | 3.NF.A | 3.NF.A.3 | 2 |



(1 point) Student created the correct equivalent fraction.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 20 | 3.OA.D | 3.OA.D.8 | 2 |



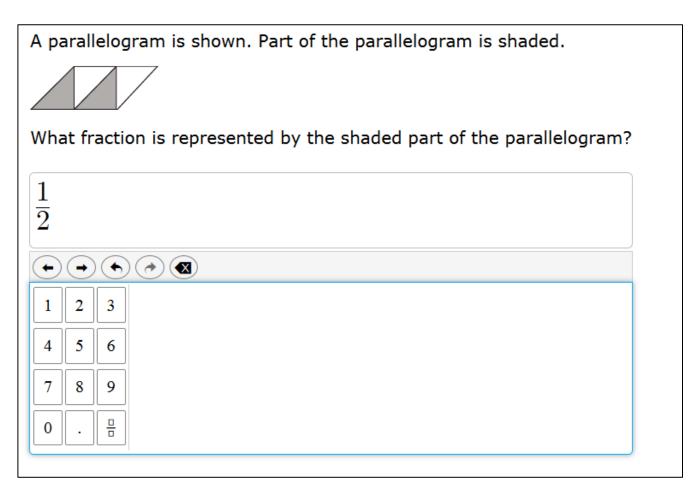
(1 point) Student entered 60 or any equivalent value.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 21 | 3.MD.C | 3.MD.C.5 | 1 |

| Th | e shaded part of the figure shown has an area of 14 square units. | | | |
|-----------------------|--|--|--|--|
| | Image: Antipole of the sector of | | | |
| W | hat does a represent? | | | |
| • | one square unit | | | |
| B | Itwo square units | | | |
| C | © four square units | | | |
| fourteen square units | | | | |

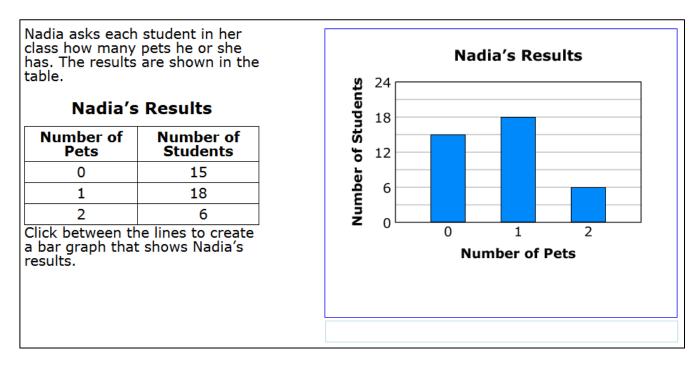
(1 Point) Student selected the correct option.

| Item Number | Cluster Content Standard | | DOK | |
|-------------|--------------------------|---------|-----|--|
| 22 | 3.G.A | 3.G.A.2 | 1 | |



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

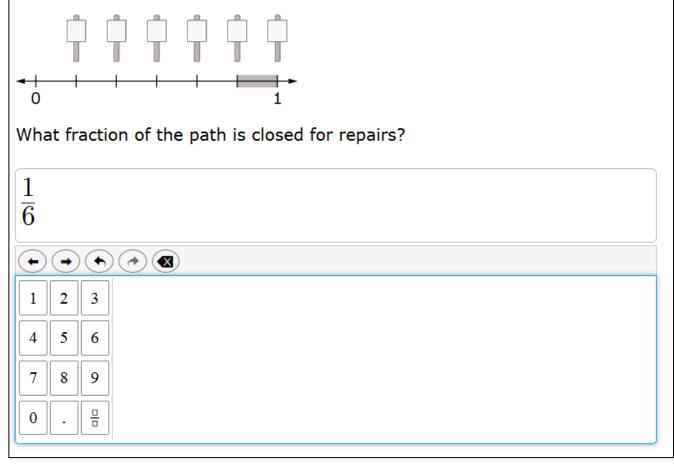
| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 23 | 3.MD.B | 3.MD.B.3 | 2 |



(1 point) Student created a correct graph.

| Item Number | Cluster | Content Standard | DOK |
|-------------|---------|------------------|-----|
| 24 | 3.NF.A | 3.NF.A.2 | 2 |

There are 6 signs that are placed an equal distance from each other along a hiking path, as shown. The shaded portion represents a section of the path that is closed for repairs.



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

| Item Number | Cluster Content Standard | | DOK | |
|-------------|--------------------------|----------|-----|--|
| 25 | 3.OA.A | 3.OA.A.1 | 2 | |

Marty has 12 books that he wants to put on shelves in his room. He wants to put the same number of books on each shelf.

Complete the sentence to correctly show how Marty can arrange the books on shelves.

| Marty can put 6 | - books on each of | 2 - | shelves. |
|-----------------|--------------------|-----|----------|
|-----------------|--------------------|-----|----------|

(1 point) Student selected 6 and 2 OR 3 and 4 from the dropdowns.