

Computer-Based Sample Test Scoring Guide Grade 3 Math



Created September 2021 Prepared by the Arizona Department of Education

About the Sample Test Scoring Guide

The Arizona's Academic Standards Assessment (AASA) Sample Test Scoring Guides provide details about the items, student response types, correct responses, and related scoring considerations for AASA 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 AASA Grade 3 Math.

ltem Number	Cluster	Content Standard	DOK
1	3.NF.A	3.NF.A.1	1

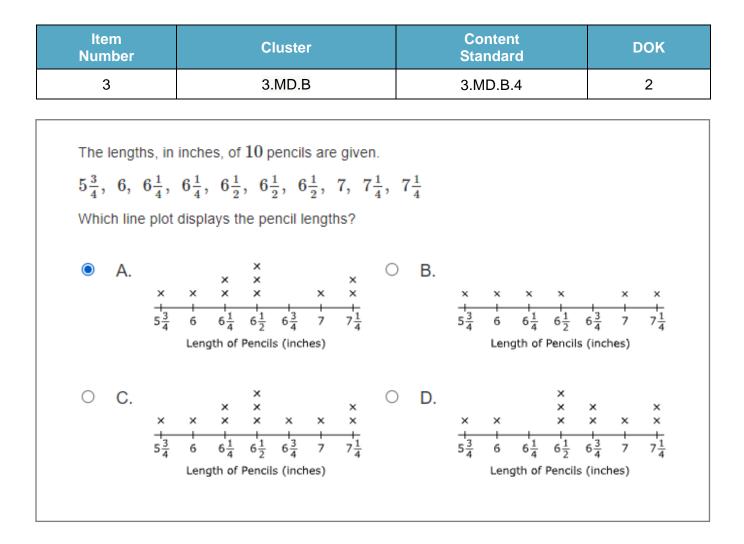
The rectangle shown is divided into equal parts. Shade $\frac{4}{6}$ of the rectangle.	
Select the parts you want to shade.	
Fewer More Reset	

Scoring Rubric			
Score	Description		
1	1 Student shades 4 out of 6 parts of the fraction model.		
0	The response is incorrect or irrelevant.		

(1 Point) Student shades the correct parts of the fraction model.

ltem Number	Cluster	Content Standard	DOK			
2	3.OA.A	3.OA.A.2	2			
Complete the menus.	There are 24 books placed equally into 8 boxes. There are					

Scoring Rubric				
Score	Score Description			
1 Student selects 24 from the first drop-down menu, 8 from the second drop-down menu, and 3 from the third drop-down menu. $24 \div 8 = 3$				
0	The response is incorrect or irrelevant.			



ltem Number	Cluster	Content Standard	DOK
4	3.NBT.A	3.NBT.A.1	2

What is the value of 783 rounded to the nearest ten?

Enter your answer in the space provided.

() ()			
1	2	3	
4	5	6	
7	8	9	
	0		
	-		

Scoring Rubric				
Score	Description			
1	The student entered 780 or any equivalent value, providing evidence of the ability to round numbers up to 1,000 to the nearest ten.			
0 The response is incorrect or irrelevant.				

ltem Number	Cluster	Content Standard	DOK
5 3.MD.C		3.MD.C.5	1

A rectangle made of 6 square units is shown. $\qquad \qquad $
Another rectangle made of square units is shown, with some square units shaded. Which square units could be selected so that the total shaded area of this rectangle is equal to the area of the rectangle above?
Select square units to create the correct total shaded area. The total shaded area can be made from any pattern of square units.

Scoring Rubric			
Score	Score Description		
1	Student selects 4 total square units, thus creating a total shaded area of 6 square units.		
0	The response is incorrect or irrelevant.		

ltem Number	Cluster	Content Standard	DOK
6	3.OA.A	3.OA.A.4	2
An equation wit $35 \div \Box = 7$ What is the value	h a missing number is given. ue of the missing number? ver in the space provided. 2 3 5 6 8 9 0 🖃	3.OA.A.4	
	- 8		

Scoring Rubric				
Score	Description			
1	The student determined the missing number is 5 or any equivalent value, providing evidence of the ability to find the value of a missing divisor in an equation.			
0	The response is incorrect or irrelevant.			

ltem Number	Cluster	Content Standard	DOK			
7	3.MD.C	3.MD.C.6	3			
rectangles have an a	four rectangles made up of us have an area less than 10 s rea greater than 10 square u answers to the correct boxes	square units and which inits?				
	Less than 10 Square UnitsGreater than 10 Square Units \square $=$ 1 square unit					

Scoring Rubric				
Score	Description			
1	Student places the 2 x 4 and the 3 x 3 rectangles into the "Less than 10 square units" gap and places the 3 x 4 and the 4 x 4 rectangles into the "Greater than 10 square units" gap.			
0	The response is incorrect or irrelevant.			

DOK

Content

Number Standard 8 3.NF.A 3.NF.A.2 1 Which number line represents $\frac{4}{6}$? \odot Α. -┢ 1 0 0 В. ◄+ +> 1 2 0 O C. ◀┥ $\frac{1}{1}$ 2 0 3 O D. ◄ + 2 3 5 4 0 6

Grade 3 Math Sample Test

Cluster

ltem

ltem Number	Cluster	Content Standard	DOK
9	3.OA.C	3.OA.C.7	3

Tara has 6 shelves in her room. She will put 5 books on each shelf. Complete the equation to find the total number of books Tara will put on the shelves.

Enter your answer in the box provided.

$\overleftarrow{}$					
1	2	3			
4	5	6			
7	8	9			
	0				
	-				

Scoring Rubric				
Score	Description			
1	Student response is 5 in the first box and 30 in the second box. Equivalent numbers are acceptable.			
0	The response is incorrect or irrelevant.			

ltem Number	Cluster	Content Standard	DOK
10	3.NBT.A	3.NBT.A.3	2

Mrs. Yoder buys 7 boxes of chalk for her school. Each box contains 30 pieces of chalk.

How many pieces of chalk does Mrs. Yoder buy?

Enter your answer in the space provided.

1	2	3		
4	5	6		
7	8	9		
	0			
	-			

Scoring Rubric				
Score	Description			
1	The student correctly calculated that Mrs. Yoder buys 210 pieces of chalk, or any equivalent value, providing evidence of the ability to multiply one-digit whole numbers by multiples of 10.			
0	The response is incorrect or irrelevant.			

ltem Number	Cluster	Content Standard	DOK
11	3.OA.D	3.OA.D.10	2
 А. 800 В. 800 С. 900 		timate the value of the express	ion?

ltem Number	Cluster Content Standard		DOK
12	3.MD.B	3.MD.B.3	2

The table shows the number of tickets to a school event that were sold by each of 3 students.

Student	Tickets Sold
Jenny	13
Kayla	25
Donna	10

Student Sold

On the final day of sales, Jenny sold an additional 7 tickets. Complete the bar graph to show the total number of tickets sold by each of the 3 students.

Drag the top of each bar to the correct height.



	Student				
	Scoring Rubric				
Score	Description				
1	Student response is to drag the first bar in the graph to 20, the second bar to 25, and the third bar to 10.				
0	The response is incorrect or irrelevant.				

ltem Number	Cluster	Content Standard	DOK
13	3.OA.B	3.OA.B.5	2

Determine if the expressions shown in the table are equivalent or not equivalent to 2 imes 4 imes 6.

Select all the correct answers.

2 imes 4 imes 6	Equivalent	Not Equivalent
24 imes 2	۲	0
6 imes 6	0	۲
4 imes 6 imes 2	۲	0

	Scoring Rubric						
Score	Description						
1	Student selects Equivalent for the first row, Not Equivalent for the second row, and Equivalent for the third row.						
0	The response is incorrect or irrelevant.						

ltem Number	Cluster	Content Standard	DOK
14	3.G.A	3.G.A.2	3

The shaded sections in the grid show $rac{1}{3}$ of a rectangle.	
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Which additional sections will complete the whole rectangle?

Select all the answers that complete the diagram.

	Scoring Rubric						
Score	Description						
1	The student correctly completed the rectangle with 8 additional sections, providing evidence of the ability to partition shapes into b parts with equal areas and express the area of each part as a unit fraction 1/b of the whole, or any response in which 8 additional grid sections are added to form a rectangle.						
0	The response is incorrect or irrelevant.						

ltem Number		Cluster	Content Standard	DOK
15		3.MD.A	3.MD.A.1	3
Richard rides his				
	s house at $3{:}21$ p.m. 24 minutes to ride to			
		3 minutes less than his ride to t	he park.	
	back to his house at		·	
How many minut	tes was Richard at th	e park?		
Enter your answ	er in the space provi	ded.		
36				
() () ()				
1	2 3			
4	5 6			
7	8 9			
	0			

Scoring Rubric						
Score	Description					
1	The student entered 36 or any equivalent value, providing evidence of the ability to solve word problems involving addition and subtraction of time intervals in minutes.					
0	The response is incorrect or irrelevant.					

ltem Number	Cluster	Content Standard	DOK
16	3.OA.A	3.OA.A.1	2
 A. 2 gro B. 4 gro C. 6 gro D. 8 gro 		Sophia could arrange her banana	IS.

(1 Point) Student checked all of the correct options.

ltem Number	Cluster	Content Standard	DOK
17	3.NF.A	3.NF.A.3	2

Turc	fraction models are shown					
IWC	fraction models are shown.					
	$\frac{2}{3}$ $\frac{2}{4}$					
1	Complete the sentences comparing $\frac{2}{3}$ and $\frac{2}{4}$ by selecting the correct answers from the drop-down menus.					
Eac	Each part in the model of $\frac{2}{3}$ is larger than \checkmark each part in the model of $\frac{2}{4}$.					
The	There are 2 parts shaded in each model.					
The	Therefore, $\frac{2}{3}$ > \checkmark $\frac{2}{4}$.					
	Scoring Rubric					
Score	Description					
	The student correctly completed the statements, providing evidence of the ability to compare two fractions with the same numerator by reasoning about their size and recording results of comparisons with symbols.					
1	Each part in the model of $\frac{2}{3}$ is larger than each part in the model of $\frac{2}{4}$.					
	There are 2 parts shaded in each model. Therefore, $\frac{2}{3} > \frac{2}{4}$.					
0	The response is incorrect or irrelevant.					

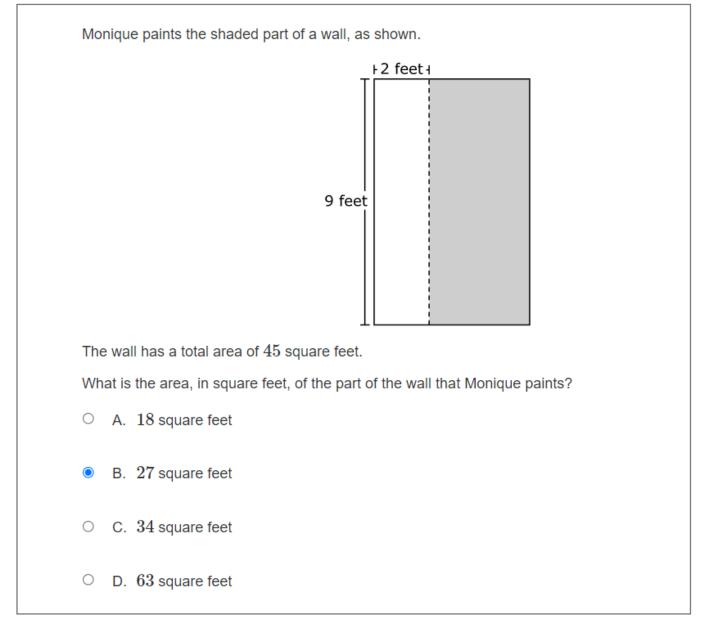
(2 Points) Student selected both correct answers from the dropdowns.

ltem Number	Cluster	Content Standard	DOK
18	3.OA.D	3.OA.D.8	2

	o alva ara !	anah tauran	
How many bl			
Enter your an	iswer in the	e space provi	ded.
6			
$(\div) (\rightarrow)$			
1	2	3	
4	5	6	
7	8	9	
	0		

Scoring Rubric				
Score	Description			
1	The student entered 6 or any equivalent value, providing evidence of the ability to solve a two-step problem using addition and division.			
0	The response is incorrect or irrelevant.			

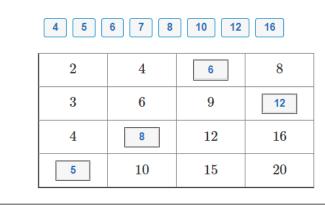
ltem Number	Cluster	Content Standard	DOK
19	3.MD.C	3.MD.C.7	3



ltem Number	Cluster	Content Standard	DOK
20	3.OA.D	3.OA.D.9	2

Each column and row in the table shows numbers that follow a pattern. Complete all the patterns in the table.

Move the correct answer to each box. Each answer may be used more than once. Not all answers will be used.



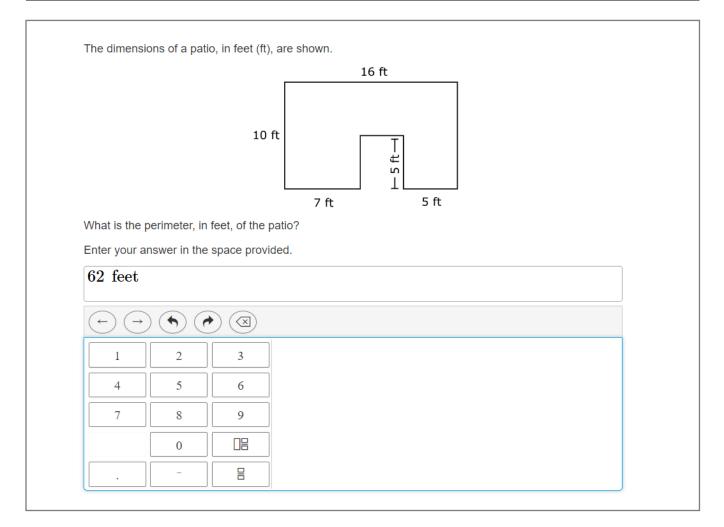
Scoring Rubric				
Score	Description			
	Student selects the following numbers for the gaps:			
	Gap 1: 6			
1	Gap 2: 12			
	Gap 3: 8			
	Gap 4: 5			
0	The response is incorrect or irrelevant.			

ltem Number	Cluster	Content Standard	DOK
21	3.NBT.A	3.NBT.A.2	1

Enter your a	nswer in the	e space provi	led.
802			
$(\leftarrow) (\rightarrow$			
1	2	3	
4	5	6	
7	8	9	
	0		
	-		

	Scoring Rubric				
Score	Description				
1	Student enters 802. Equivalent numbers are acceptable. 329 + 473 = 802				
0	The response is incorrect or irrelevant.				

ltem Number	Cluster	Content Standard	DOK
22	3.MD.C	3.MD.C.8	3



Scoring Rubric				
Score	Description			
1	The student entered 62 feet or any equivalent value, providing evidence of the ability to solve a mathematical problem involving the perimeter of a plane figure.			
0	The response is incorrect or irrelevant.			

ltem Number	Cluster	Content Standard	DOK
23	3.OA.B	3.OA.B.6	3
 A. Yes, B. Yes, C. No, 	g number the same for both equations use the because both equations use the because the missing quotient because the equations do not the	he same given numbers will be equal to the missing fact	

ltem Number	Cluster	Content Standard	DOK
24	3.MD.A	3.MD.A.2	3
3 smaller conta	ainers. She poured the same a	ne poured all the paint from the bur amount of paint into each smaller o each of the smaller containers?	

ltem Number	Cluster	Content Standard	DOK
25	3.OA.A	3.OA.A.3	2

There are 42 volleyball players on 7 teams. Each team has the same number of players.

How many players are on each team?

Enter your answer in the space provided.

6			
\leftarrow			
1	2	3	
4	5	6	
7	8	9	
	0		
	-		

	Scoring Rubric		
Score	Description		
1	The student entered 6 or any equivalent value, providing evidence of the ability to solve word problems involving division within 100.		
0	The response is incorrect or irrelevant.		

ltem Number	Cluster	Content Standard	DOK
26	3.OA.A	3.OA.A.3	2

Molly has 5 bags of crayons. Each bag has 8 crayons.

Create a multiplication equation that shows the number of crayons Molly has in total?

Enter your answer in the space provided.

$$5 \times 8 = 40$$

$$(-) \times (-) \times (-)$$

Scoring Rubric		
Score	Description	
1	Student response is $5 \times 8 = 40$ or $8 \times 5 = 40$. Note: Equivalent equations using multiplication and numbers equivalent to 5, 8, and 40 are acceptable.	
0	The response is incorrect or irrelevant.	