Arizona's Instrument to Measure Standards (AIMS)

Grade 5

Writing, Reading, and Mathematics

Released Items

January 7, 2008

As part of Superintendent Tom Horne's ongoing efforts to improve the communication of academic expectations, the Arizona Department of Education is releasing AIMS DPA Grades 3 through 8 writing, reading, and mathematics items to the public. This release is intended to provide students, parents, teachers, and the community with specific examples of the types of skills being assessed on the AIMS tests. The release begins with writing, followed by reading and mathematics, similar to the AIMS tests.

Included in this release is a previous writing prompt and dire ctions used in the AIMS assessments. Following the writing prompt section are a reading passage, directions, and the items associated with the passage in the form of a mini-test. This passage and related items are from the 2005 and 2006 AIMS administrations. At the conclusion of the reading section, the individual items are presented again with the correct answers and statistical information about each item.

The final section consists of ten mathematics items from the 2006 and 2007 AIMS administrations in the form of a mini-test. At the conclusion of the mathematics section, the individual items are presented again with the correct answers and statistical information about each item.

The statistical information includes:

- 1) item identification number;
- 2) correct answer;

3) response probability (P-Value), which represents the percentage of students who answered the question correctly;

4) Rasch difficulty, which measures the difficulty of the item on a scale in which -3 indicates a very easy item and +3 indicates an extremely difficult item; and

5) performance objective that the item aligns to in the 2003 standards.

The items are reproductions of the actual items as they appeared on the AIMS tests. If you have any questions, please contact Frank Brashear, Director of Test & Item Development, at (602) 542-5031.

WRITING

WRITING

Writing

Directions:

Read the writing prompt below. Use the next page for your prewriting and planning. Then write your draft on pages 6 and 7.

There is a knock at the door. You open the door and are quite surprised to discover an unusual creature.

Write a story about this experience and what happens next.

Your writing should:

- have a story line with a clear sequence
- use descriptive words and phrases
- have well-developed characters
- describe the setting

Remember to edit for spelling, grammar, punctuation, and capitalization.



WRITING

DIRECTIONS:

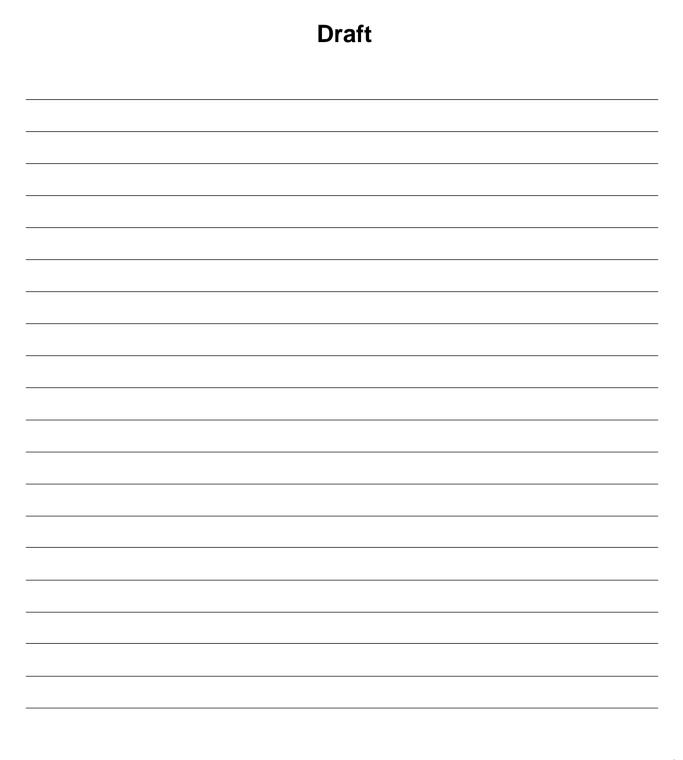
Use the prewriting and planning space below for notes, lists, webs, outlines, and anything else that might help you plan your writing.

Prewriting and Planning



DIRECTIONS:

Write your draft on the following lines. Refer to the writing prompt and your prewriting and planning space as you write your draft.





DIRECTIONS:

Now you are going to revise your draft. Read your draft, then use the questions in the Writer's Checklist as a guide to make your changes. Check each box if you can answer "yes" to that question.

Writer's Checklist

Are my ideas clear?

Does my writing have words that make it interesting?

Does my writing have a clear beginning, middle, and ending?

Does my writing sound right and make sense?

Did I edit for capital letters?

Did I edit for correct punctuation?

Did I edit for correct spelling?

If you left any box in the checklist blank, think about ways to make your writing better.

DIRECTIONS:

For each box you did not check, make a change on your draft. Then write your final version in your Test Book /Answer Document.



READING

Directions:

Read the passage. Then answer Numbers 1 through 7. LEXILE: 700L Mystery at Madison Middle School

"It's February!" Mike shouted excitedly as class began, and everyone began to cheer.

Mrs. McTavish smiled at her students. "I hope we get things done on time. I will need your help, of course. You'll have to keep our room extra neat so that I don't have to straighten up after school."

"What's happening?" Rosalinda whispered to Nina. Rosalinda had just moved from another school and had only been in Mrs. McTavish's class for two weeks. She never said much and seemed a bit uncomfortable.

"Well, you see, Rosalinda, each year . . ." Mrs. McTavish began.

"Wait a minute!" Mike insisted. "Why don't we let it be a surprise?" he exclaimed joyfully.

"Oh yes!" Nina agreed. "Rosalinda will have a mystery to solve. She can ask us questions for clues, but nobody can tell her what's happening. If she hasn't guessed, she will find out the last Friday of this month."

Mrs. McTavish, after glancing at Rosalinda for approval, agreed to the plan. "Everyone go home and write out some clues," she told the class. "Bring them in tomorrow so that Rosalinda may begin solving the mystery. Each day she may ask one student for a piece of information about him or her, and she may ask for one clue."

The next day, at the beginning of class,

Mrs. McTavish said, "Well, Rosalinda, whom are you going to ask for a clue?"

Rosalinda smiled shyly and looked at Nina, the only girl in class she'd really spoken to. "Do you have any brothers or sisters? What's your clue?"

"I have one younger sister. My clue is this: Some people that you see every day are not what they seem to be." Rosalinda looked puzzled but wrote down the clue.

The next morning, Rosalinda got to ask again. "Ask me! Ask me!" Mike shouted. "I've got a great clue."

"Okay, Mike," she said timidly, "What's your favorite subject, and what's your clue?"

"I like reading," he said, "and my clue is this: Everyone in school will agree that the auditorium is under lock and key."

Mrs. McTavish applauded. "Great, Mike, you even made it rhyme."

Day after day, Rosalinda learned about her classmates and collected clues.

By the last Friday of February, everyone was very excited. "I've got a great clue!" Tamara called. Everyone crowded around Rosalinda.

"Tamara," Rosalinda said quietly, "what's your favorite food?" Actually, Rosalinda already knew the answer to this question because she'd been talking to Tamara and several of her new friends at lunch. "And what's your clue?"



"I love pizza. The clue is: You need to practice singing a song. The chorus always goes on and on," Tamara announced.

"I think it's a concert," Rosalinda guessed.

"You're so close," Tamara grinned, "but wait and see! Can we go to the auditorium now, Mrs. McTavish?"

In the auditorium, students were talking excitedly and pointing at the stage. "What is it going to be this year?" they asked each other.

Rosalinda sat between Nina and Tamara. Suddenly, music started and the students were instantly quiet. The curtain slowly moved aside. Mrs. McTavish stood in the middle of the stage dressed in rags, with gray soot smeared on her face. Behind her was a cardboard fireplace. "Oh dear," she said, "I think I hear my stepmother and stepsisters coming down the hall."

Principal Hartgrave, Miss Phelps, and Mrs. Jones marched onstage, all wearing long, flowing dresses.

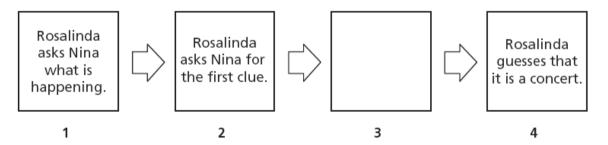
"This happens every year," Tamara whispered to Rosalinda. "The teachers and staff put on a play for us."

Rosalinda grinned. "Cinderella" had always been one of her favorite stories. The mystery was solved, and she was happy at her new school.

- Why does Mrs. McTavish allow Rosalinda to ask one question of the students as they give their clues?
 - A The students will feel a part of the mystery.
 - B Rosalinda can learn about her new classmates.
 - C The students are trying to get a part in the play.
 - D Mrs. McTavish wants to know more about the students.
- 2. Who is the major character in the passage?
 - A Tamara
 - B Rosalinda
 - C Miss Phelps
 - D Principal Hartgrave



- 3. Which word best describes Mike?
 - A athletic
 - B clumsy
 - C confident
 - D lazy
- **4.** What is the **most** important idea that the author wants the reader to believe about Mrs. McTavish?
 - A She enjoys solving mysteries.
 - **B** She likes acting in the staff play.
 - C She wants students to feel welcome.
 - **D** She has always wanted to be Cinderella.
- **5.** Look at the graphic organizer.



Which of these sentences belongs in box 3?

- A Nina says that some people are not what they seem to be.
- **B** Mrs. McTavish asks the students to help keep the room clean.
- C Principal Hartgrave, Miss Phelps, and Mrs. Jones march onstage.
- D Mrs. McTavish says that she hears her stepmother and stepsister.



- 6. How does Rosalinda feel by the end of the passage?
 - A accepted
 - B confused
 - **C** disappointed
 - D educated

- 7. This passage is an example of which genre?
 - A fantasy
 - B adventure
 - C science fiction
 - D realistic fiction



Item	Reading Item Data										
					1	r					
1	Item Number	3301129	Correct	В	P-Value	.67	Equated Rasch Value	0.0588			
	Number 2003 Readin	o Standard	Answer Align mer	nt is :	Strand 1 – (Concept 6	– Performance Objectiv	e 6			
	2003 Reading Standard Alignment is Strand 1 – Concept 6 – Performance Objective 6										
	Why does Mrs. McTavish allow Rosalinda to ask one question of the students as they give their clues?										
	A The students will feel a part of the mystery.										
	В	Rosalinda ca	n learn abou	t her	new classmate	es.					
	с	The students	are trying to	o get a	a part in the p	lay.					
	D	Mrs. McTavis	sh wants to k	now	more about th	ie students.					
					Reading Ite	em Data					
2	Item	3301132	Correct	В	P-Value	.87	Equated Rasch Value	-1.3280			
	Number	0. 1. 1	Answer								
	2003 Reading Standard Alignment is Strand 2 – Concept 1 – Performance Objective 3										
	Wh	no is the majo	or character	in the	e passage?						
	А	Tamara									
	В	Rosalinda									
	с	Miss Phelps									
	D	Principal Har	tgrave								
			5								
					Reading Ite	em Data					
3	Item	3301138	Correct	С	P-Value	.76	Equated Rasch Value	-0.3839			
	Number		Answer								
	2003 Readin	ng Standard	Alignme	nt is l	Strand $2 - 6$	Concept 1	– Performance Objectiv	e 4			
	W	hich word b	est describ	oes N	like?						
	А	athletic									
	В	clumsy									
	С	confident									
	_										
	D	lazy									

					Reading Ite	m Data						
4	Item	3301136	Correct	С	P-Value	.59	Equated Rasch Value	0.5589				
	Number		Answer									
	2003 Reading Standard Alignment is Strand 2 – Concept 1 – Performance Objective 7											
	What is the most important idea that the author wants the reader to believe about Mrs. McTavish?											
	A She enjoys solving mysteries.											
		B She likes acting in the staff play.										
		C She wants	students to fe	el welc	ome.							
		D She has alv	vays wanted t	o be Ci	nderella.							
			,									
				-	Reading Ite	m Data						
5	Item	3301126	Correct	А	P-Value	.73	Equated Rasch Value	-0.2484				
	Number		Answer									
	2003 Readi	ng Standard	Alignme	nt is	Strand $1 - 0$	Concept 6	– Performance Objectiv	ve 4				
	Look at the graphic organizer.											
		Rosalinda asks Nina	Rosalind				alinda					
		what is happening.	asks Nina f				ses that concert.					
		1	2		3		4					
		Which of these sent	ences belongs in	box 3?								
		A Nina says that so	me people are not	t what th	ey seem to be.							
		B Mrs. McTavish as	ks the students to	help kee	p the room clean.							
					ones march onstage.							
		D Mrs. McTavish sa	ys that she hears h	ner stepn	other and stepsister.							
			~	1.	Reading Ite							
6	Item	3301139	Correct	Α	P-Value	.74	Equated Rasch Value	-0.4115				
	Number		Answer									
	2003 Readi	ng Standard	Alignme	nt is	Strand $1 - 0$	Concept 6	– Performance Objectiv	/e 6				
	ŀ	low does Rosali	nda feel by th	ne end	of the passage?	,						
		A accepted										
		B confused										
		c disappointed										
		D educated										

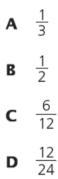
				Reading It	em Data						
Item	3301128	Correct	D	P-Value	.50	Equated Rasch Value	0.9637				
Number		Answer									
2003 Reading Standard Alignment is Strand 2 – Concept 1 – Performance Objective 9											
1	This passage is an example of which genre?										
	A fantasy										
	B adventur	e									
	c science f	iction									
	D realistic f	iction									

MATHEMATICS

Mathematics ——

DIRECTIONS: Read each question and choose the best answer.

1. Which of these shows $\frac{24}{48}$ expressed in lowest terms?



- **2.** The total cost of 4 baseballs was \$12. Which number sentence could be used to determine the cost, *B*, of each baseball?
 - $\mathbf{A} \quad 4 \times 12 = B$
 - **B** 4 + B = 12
 - **C** 12 B = 4
 - **D** $12 \div 4 = B$



3. Jeff used the same rule to change each number in Column A to a different number in Column B.

Column A		Column B
24	\rightarrow	8
60	\rightarrow	20
15	\rightarrow	5
36	\rightarrow	12

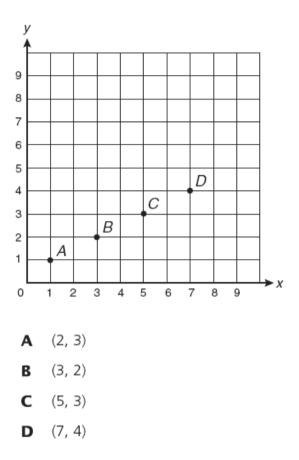
Which of the following could be the rule Jeff used?

- A Subtract 16.
- B Subtract 10.
- C Divide by 3.
- D Divide by 4.

- 4. What is the value of the expression below when R = 1.05?
 - 8 imes R
 - **A** 0.84
 - **B** 8.4
 - **C** 84
 - **D** 840



5. What is the ordered pair for the location of point *B* on the coordinate grid?



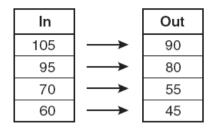
6. Which value for *R* makes the number sentence below true?

$$R \div 14 = 32$$

A 8
B 18
C 56
D 448



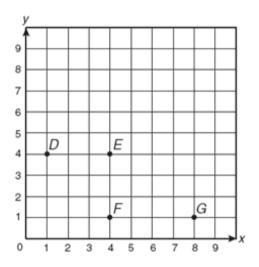
7. Jessica has a number machine that uses a rule to change numbers as shown below.



Which of these could be the rule Jessica's machine uses?

- A Add 10.
- **B** Add 15.
- C Subtract 10.
- D Subtract 15.

8. Look at the coordinate grid below.



What ordered pair is the location of point F?

- A (1, 4)
- **B** (4, 1)
- C (4, 4)
- **D** (8, 1)



9. Which value for *N* makes the number sentence below true?

72 × N = 1,728 = 24 = 29 = 1,659 = 1,800

1

1

10. Ashley uses a rule to change each number in Column A to a different number in Column B. The table below shows how the numbers change.

Column A		Column B
7	\rightarrow	28
10	\rightarrow	31
20	\rightarrow	41
24	\rightarrow	45

Which of these could be the rule Ashley uses?

A Add 21.

btract 4. /ide by 2. .Itiply by 4.



Item				Μ	athematics	Item Data	a				
	Item	3301841	Correct	В	P-Value	.55	Equated Rasch Value	0.7871			
1	Number		Answer								
	2003 Mather	natics Standa	rd Alignmo	ent is	Strand 1 –	Concept	2 – Performance Objectiv	ve 10			
			. 24								
	v	hich of these	shows $\frac{24}{48}$ ex	presse	ed in lowest te	erms?					
		1									
	A	<u>1</u> 3									
	B $\frac{1}{2}$										
	С	<u>6</u> 12									
		$\frac{12}{24}$									
	D	24									
	Item	3140601	Correct	D	P-Value	.54	Equated Rasch Value	1.3998			
2	Number		Answer								
	2003 Mather	natics Standa	rd Alignmo	ent is	Strand 3 –	Concept	3 – Performance Objectiv	ve 2			
	TI	The total cost of 4 baseballs was \$12. Which number sentence could be									
	u	used to determine the cost, <i>B</i> , of each baseball?									
	A	$4 \times 12 = B$									
	В	4 + B = 12									
	c	12 - B = 4									
	0	1 $2 \div 4 = B$									
	Item	3140605	Correct	C	P-Value	.71	Equated Rasch Value	0.0360			
3	Number		Answer								
	2003 Mather	natics Standa	rd Alignmo	ent is	Strand 3 –	Concept	2 – Performance Objectiv	ve 1			
		ff used the same	a rula ta chan		ch number in C		a different number in				
		lumn B.	e rule to char	ige ea	th number in C	olumn A to a	a different number in				
			Co	lumn /		olumn B					
				24 60		8 20					
				15		5					
				36	\rightarrow	12					
	5 m #1	hich of the fall	uning and the	- بالح م	nula laff						
		hich of the follo	wing could b	e the	rule Jerr used?						
	A	Subtract 16.									
	В	Subtract 10.									
	С	Divide by 3.									
	D	Divide by 4.									

4	Item Number	3282175	Correct Answer	В	P-Value	.60	Equated Rasch Value	0.6741
		natics Standa		ent is	Strand 3 –	Concept 3	3 – Performance Objectiv	ve 3
	\	What is the v	alue of the	e expr	ession belo	w when R	= 1.05?	
			8 imes R					
		A 0.84						
		B 8.4						
		C 84						
		D 840						
_	Item	3281860	Correct	В	P-Value	.73	Equated Rasch Value	0.0234
5	Number 2003 Mather	natics Standa	Answer rd Alignme	ent is	<u> </u> Strand 4 –	Concept 3	3 – Performance Objecti	ve 1
						<u> </u>		
	v	Vhat is the c	ordered pa	ir for	the locatio	n of point	B on the	
		oordinate g	-					
		<i>y</i> ↑						
	9							
	8							
	6							
	5			D				
	4		С					
	3		3					
	1	A						
	c) 1 2 3	4 5 6	7 8	9 × x			
		A (2, 3)						
		B (3, 2)						
		C (5, 3)						
		D (7, 4)						

AIMS Grade 5 Released Items

— T		0000105			Grade 5 Re			1 2007
_	Item	3282197	Correct	D	P-Value	.52	Equated Rasch Value	1.3085
5	Number	hatian Standa	Answer	antia	Strand 2	Concent	3 – Performance Objecti	
		Which value		es the				
		A 8						
		B 18						
		C 56						
		D 448						
7	Item Number	3282160	Correct Answer	D	P-Value	.72	Equated Rasch Value	-0.0804
7		1 natics Standa		ent is	Strand $3 -$	Concept	2 – Performance Objecti	ve 1
					ln 105 95 70 60	\rightarrow	Out 90 80 55 45	
	N	Which of th	ese could l	oe th	e rule Jessio	a's machi	ne uses?	
	,	A Add 10.						
	1	B Add 15.						
	(C Subtract	10.					
	I	D Subtract	15.					

AIMS Grade 5 Released Items

					Grade 5 Re	,		,
	Item	3280466	Correct	В	P-Value	.68	Equated Rasch Value	0.1202
8	Number		Answer					
	2003 Mather	natics Standa	rd Alignme	ent is	Strand 4 –	Concept 3	B – Performance Objecti	ve 1
		Look at the c	E F 4 5 6	7 8	elow.		9 – Performance Objecti	ve 1
9	Item Number 2003 Mather	3282199 natics Standa	Correct Answer rd Alignme	A ent is	P-Value Strand 3 –	.63 Concept 3	Equated Rasch Value – Performance Objecti	0.6455 ve 3
		Which value	e for N mak $2 \times N = 1$		e number s	entence be	low true?	
		A						
		В						
		c	9					
		D N = 1,8	00					

AIMS Grade 5 Released Items

·	Allvis Glade 5 Keleased Hellis									
	Item	3282164	Correct	A	P-Value	.73	Equated Rasch Value	0.0187		
10	Number		Answer							
	2003 Mathematics Standard Alignment is Strand 3 – Concept 2 – Performance Objective 1									
10		Ashley uses a	rule to cha olumn B. The diameter of the second be secould be 4.	nge ead e table Colum 28 31 41 45	ch number in below shows In B	Column A	2 – Performance Objecti to a different numbers change.	ve 1		
			- ,							