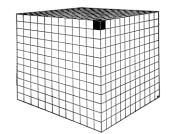
MMON RE STATE ANDARDS







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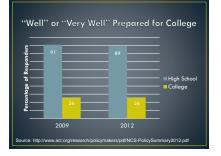


High School G-MG.1 – Use geometric	• 8 G.9 Know the formulas	ary School te volume to the
shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or	cylinders, and spheres and use them to solve	multiplication and solve real world and problems involving ly the area and mulas for rectangles
a human torso as a cylinder). • G-GMD.3 – Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.	mathematical problems. *7.6.6 - Solve real-world problems involving area, volume and surface area of two- and three- dimensional objects. ************************************	and mathematical d areas of area by decomposing overlapping d adding the areas arlapping parts, technique to solve ablems.
	formulas V = I w h and V = b h to find volumes of right rectangular prisms meauring top	
	lengths in the context of solving real-world and mathematical problems.	tale number of tribe measurable bjects, such as ht. Describe several ttributes of a single

COMMON CORE STATE STANDARDS

Common Core State of the States (Math) Adopted

- COMMON CORE STATE STANDARDS FAQ What are the Common Core State Standards? Where did they come from? Who has adopted them? Why do we need them? What is the purpose of K-12 Ed? College readiness ACT National Curriculum Survey



COMMON CORE STATE Standards? FAQ Where did they come from? Who has adopted them? Why do we need them? Why do we need them? Why do use need them? Why do use need them? College readiness





How Is It All Connected?

College Readiness Mathematical Standards for Career Practice and Content Readiness

Standards for Mathematical Practice

- Use appropriate tools strategically.
 Attend to precision.
- 7. Look for and make use of structure. 8. Look for and express regularity in repeated reasoning.

BREAKING DOWN THE CONTENT STANDARDS

K Counting	1	2	3	4	5	6	7	8	HS
& Cardinality									
	Num	iber and Op	erations in	Base Ten		Pri	atios and oportional lationships		Number
Number and Operations – The Number System							and Quantity		
1						£φ	ressions and E	quations	Algebra
	Оря	rations and	Algebraic	Thinking				Functions	Function
				Geomet	ry .				Geometr
Measurement and Data Statistics and Probability							Statistics & Probabilit		

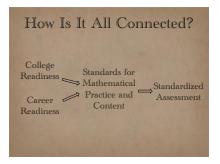
BREAKING DOWN THE CONTENT STANDARDS







- d a fraction as a nu e diagram. (see ant a fraction 1/b c o 1 as the whole an rt has size 1/b and iber 1/b on the num
- Represent a fraction a/b on a number line 1/b from 0. Recognize that the resulting in marking





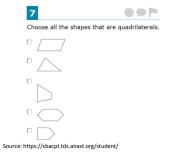
 SMARTER
 • Students in grades 3

 BALANCED
 through 8 and grade 11 will

 ASSESSMENT
 be assessed.

SMARTER BALANCED PROBLEM TYPES • Selected-response items - Prompt students to select one or more responses from a set of options.

3																			0	9		Pu	
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	nich e				-												e ir	۱s	qu	are	un	its?	
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21 991 For questions 1a-1d, choose Yes or No to show if the number 7 will make each equation true.

14	. 6×	-	36	O Yes	O No
16	. 8 ×	-	64	O Yes	O No
10	. 49 ÷	-	7	O Yes	O No
10	. 54 ÷	-	6	O Yes	O No





Source: https://sbacpt.tds.airast.org/student/

Source: https://sbacpt.tds.airast.org/student/

Ros nses to this item will receive 0-2 points, based upon the following:

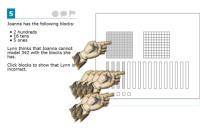
2 points: WNN. The student has a solid understanding of 2/5 as well as an equivalent form of 2/5.

1 point: WNN, WN, WYN. The student has only a basic understanding of 2/5. Either the student doesn't recognize an equivalent fraction for 2/5 or does understand that all 5 parts must be equal sized in figure 1b.

<u>Opoints</u>: YYYY, YNNY, NNNN, NNYY, NYYN, NYNN, NYYY, NYNN, NNNN, NYNY, <u>B</u>WNN, NNNY. The student demonstrates inconsistent understanding of 2/5 or answers "7" to figure 14 (certy showing a misunderstanding of what 2/5 means. Figure 1d is considered a "disqualife" and an answer of "7" to this part of the item would cancel out any other correct responses as "guesses" on the part of the student.

SMARTER BALANCED PROBLEM TYPES
 Selected-response items
 Technology-enhanced items

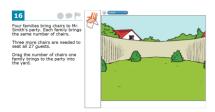
 Use technology to collect evidence through a non-traditional response type, such as editing text or drawing an object.



Source: https://sbacpt.tds.airast.org/student/

So	lve	the	e prob	olem.		
90	4 -	25	6 = 🗆]		
				-		
•)()(•		6		
←	2)(•		٩		
← 1 4) → 2 5	\simeq		8		
← 1 4 7		3		8		

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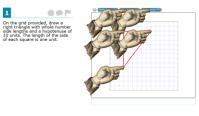


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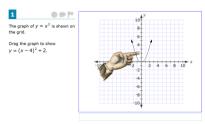
cks of pencils. tains 15 pencils. In encils are blue and

ate a bar graph to show how ny of each color pencil Nicky

Click the graph to show where the top of the bar should go.



Source: https://sbacpt.tds.airast.org/student/



Source: https://sbacpt.tds.airast.org/student/

SMARTER BALANCED PROBLEM TYPES - Technology-enhanced items - Constructed-response items - Students produce a text and/or numerical response in order to collect evidence about their knowledge or understanding.

Nicky's Pencils

Look For full credit (2 points):

· Student reaches the correct conclusion.

 AND
 Student provides sufficient reasoning to support this conclusion.

For partial credit (1 point): • Student reaches the correct conclusion but does not provide sufficient reasoning to support this conclusion.

OR

. Student does not reach the correct conclusion but

provides reasoning to support this conclusion that contains a minor conceptual or computation error.

Source: https://sbacpt.tds.airast.org/student/

For full credit (2 points):

 Student reaches the correct conclusion. AND

 Student provides sufficient reasoning to support this conclusion.

For partial credit (1 point):

 Student reaches the correct conclusion but does not provide sufficient reasoning to support this conclusion.

OR

4:1

Roi ten

- Student does not reach the correct conclusion but provides reasoning to support this conclusion that contains a minor conceptual or computation error.

Source: https://sbacpt.tds.airast.org/student/

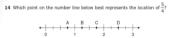
- SMARTER BALANCED PROBLEM TYPES Constructed-response items Constructed-response items Performance tasks Measure a student's ability to integrate knowledge and skills across multiple standards.

5

Performance Tasks

- Elementary School: Planting Tulips
- Middle School: Taking a Field Trip
- High School: Thermometer Crickets

Assessments: MEAP vs. Common Core





Assessi	nents: MEAP vs. Common Core
bel the point	where $\frac{2}{3}$ belongs on the number line. Be as exact as possible.
<	
0	$\frac{1}{4}$
iource: http:/	/www.illustrativemathematics.org/illustrations/170

WHAT DOES IT LOOK LIKE...

 critically think
 applying knowledge and skills to real-world settings
 analyze and solve complex problems
 when students have procedur

understanding or the ability to apply mathematics?

 when students struggle to process mathematics at a higher

			YIII
	Slauson Ave	1	
Al	Jct 🕺	11/4	
Contraction -	Jefferson Blvd	11/2	
-	and the second diversity of th	12	
		10	12.
NERPERATE	A PARTY MAN		100

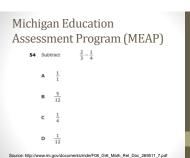
How far apart are the exits on this



$$\frac{1}{2} - 1\frac{1}{4}$$







NEXT STEPS

Standards for Mathematical Practic – Talking and writing

Rigor

- Conceptual
- understanding

- Procedural skil fluencv

