Wyoming

DEPARTMENT OF EDUCATION

Leading the Drive to Top 5!

PAWS
Mathematics
Grade 3

Released Items
With Data

2014

Mathematics Released Items with Data
Introduction Page / Data Definitions

This Released Items with Data document provides a subset of items from the 2013 administration of the PAWS test. The data for an item is on the page that follows that item. The following provides definitions for the data fields on the data page.

Item Information

Title: Title of the passage/stimulus the item belongs to

2012 WyCPS Domain: The reporting category of the state content standards

2012 WyCPS Standard: State content standard

Item Code: Identification code assigned to the item

Admin: The year an item is administered

Item Type: The mode in which a student responds (MC means multiple-choice)

Correct Answer: The option letter (A, B, C, or D) that corresponds to the correct answer

Item Dok: The item's Depth of Knowledge designation, also called Cognitive Complexity;
1 - Recall and reproduction
2 - Skills and concepts
3 - Strategic and extended thinking

Total N-count: Number of students counted as taking the test in which the item appears during the listed administration (Includes item omissions)

Pvalue/Mean Score: For a multiple-choice item, the percent of students choosing the correct answer

Score Analysis

MC Row: Answer options available for students to choose from (including those who do not choose any option); an asterisk designates the correct answer

%Choosing Row: Percent of students choosing an option (or omitting)

Item Notes: Area where user can make notes

00 **A store has 4 boxes of red apples and 3 boxes of green apples. Each box contains 10 apples. How many apples are there altogether?**

Ⓐ 70

Ⓑ 52

Ⓒ 42

Ⓓ 34

Item Information	
2012 WyCPS Domain:	Operations and Algebraic Thinking
2012 WyCPS Cluster:	Solve problems involving the four operations, and identify and explain patterns in arithmetic.
2012 WyCPS Standard:	3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. (This standard is limited to problems posed with whole numbers and having whole-number answers; students should know how to perform operations in the conventional order when there are no parentheses to specify a particular order (Order of Operations).)
Item Code:	VF393775

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2013	MC	A	2	711	0.852

Score Analysis					
MC	**A***	**B**	**C**	**D**	**Omit**
%Choosing	85.232	2.391	3.797	8.158	0.422

Item Notes

00 **Which statement is always true?**

Ⓐ A whole number multiplied by an even number will be even.

Ⓑ A whole number multiplied by an odd number will be odd.

Ⓒ A whole number multiplied by 5 will end in 0.

Ⓓ A whole number multiplied by 2 will end in 2.

Item Information	
2012 WyCPS Domain:	Operations and Algebraic Thinking
2012 WyCPS Cluster:	Solve problems involving the four operations, and identify and explain patterns in arithmetic.
2012 WyCPS Standard:	3.OA.9 Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.
Item Code:	VF493428

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2013	MC	A	2	699	0.531

Score Analysis					
MC	**A***	**B**	**C**	**D**	**Omit**
%Choosing	53.076	18.741	18.169	9.585	0.429

Item Notes

00 **Which expression has a value of 480?**

Ⓐ 48×0

Ⓑ 8×6

Ⓒ 4×80

Ⓓ 6×80

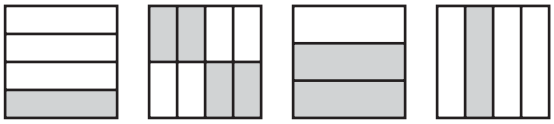
Item Information	
2012 WyCPS Domain:	Number and Operations in Base Ten
2012 WyCPS Cluster:	Use place value understanding and properties of operations to perform multi-digit arithmetic.
2012 WyCPS Standard:	3.NBT.3 Multiply one-digit whole numbers by multiples of 10 in the range 10-90 (e.g., 9 × 80, 5 × 60) using strategies based on place value and properties of operations. (A range of algorithms may be used.)
Item Code:	VF406337

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2013	MC	D	1	700	0.49

Score Analysis					
MC	**A**	**B**	**C**	**D***	**Omit**
%Choosing	6.571	2.286	40.714	49	1.429

Item Notes

00 **Four shaded fraction models are shown.**



1 2 3 4

Which two shaded fraction models are equivalent?

Ⓐ 1 and 3

Ⓑ 2 and 3

Ⓒ 2 and 4

Ⓓ 1 and 4

Item Information	
2012 WyCPS Domain:	Number and Operations—Fractions
2012 WyCPS Cluster:	Develop understanding of fractions as numbers.
2012 WyCPS Standard:	3.NF.3 Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size. (Grade 3 expectations in this domain are limited to fractions with denominators 2, 3, 4, 6, and 8.)
Item Code:	VF494802

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2013	MC	D	2	699	0.684

Score Analysis					
MC	**A**	**B**	**C**	**D***	**Omit**
%Choosing	5.15	15.594	10.3	68.383	0.572

Item Notes

00 **A rectangular deck is 8 feet long and 15 feet wide. What is the perimeter of the deck?**

Ⓐ 23 feet

Ⓑ 26 feet

Ⓒ 46 feet

Ⓓ 95 feet

Item Information	
2012 WyCPS Domain:	Measurement and Data
2012 WyCPS Cluster:	Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
2012 WyCPS Standard:	3.MD.8 Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.
Item Code:	VF393742

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2013	MC	C	2	711	0.387

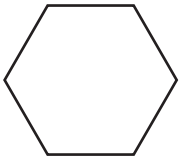
Score Analysis					
MC	**A**	**B**	**C***	**D**	**Omit**
%Choosing	50.633	5.907	38.678	4.641	0.141

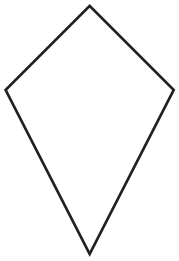
Item Notes

00 **Which shape is <u>NOT</u> a quadrilateral?**

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

Item Information	
2012 WyCPS Domain:	Geometry
2012 WyCPS Cluster:	Reason with shapes and their attributes.
2012 WyCPS Standard:	3.G.1 Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.
Item Code:	VF494861

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2013	MC	C	1	711	0.609

Score Analysis					
MC	**A**	**B**	**C***	**D**	**Omit**
%Choosing	6.048	5.063	60.9	27.567	0.422

Item Notes