



DEPARTMENT OF EDUCATION

PAWS
Mathematics
Grade 6
Released Items
With Data

Geometry

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Portions of this work were previously published.

Printed in the United States of America.

Mathematics Released Items with Data Introduction Page / Data Definitions

This Released Items with Data document provides a subset of items from the 2015 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

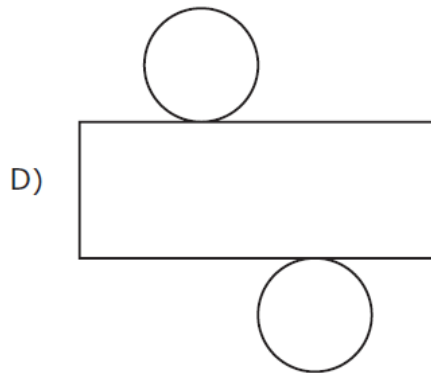
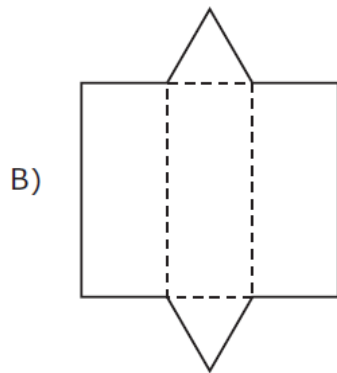
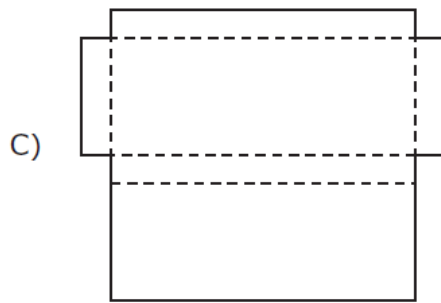
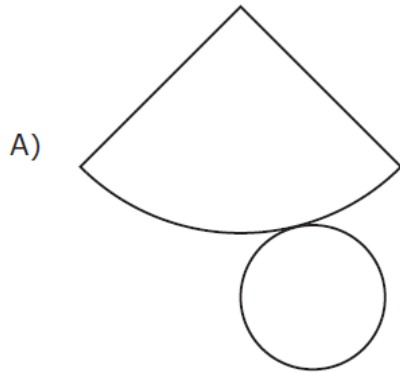
Score Analysis

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 Linda is making pillows in the shape of cylinders. Which net could represent one of the pillows?

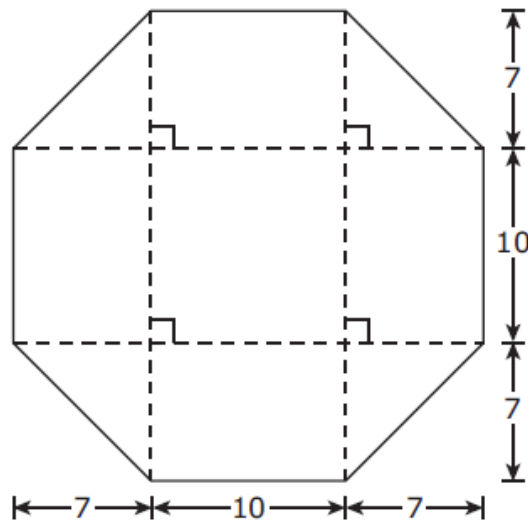


Item Information	
2012 WyCPS Domain:	Geometry
2012 WyCPS Cluster:	Solve real-world and mathematical problems involving area, surface area, and volume.
2012 WyCPS Standard:	6.G.4 Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.
Item Code:	VF493008

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2013	MC	D	2	674	0.712

Score Analysis					
MC	A	B	C	D*	Omit
%Choosing	11.573	5.49	11.573	71.217	0.148

- 00** To find the area of the regular octagon shown, Val divided the octagon into rectangles and triangles using perpendicular line segments. Then he measured the line segments to the nearest centimeter.



Which measure is closest to the area of the regular octagon?

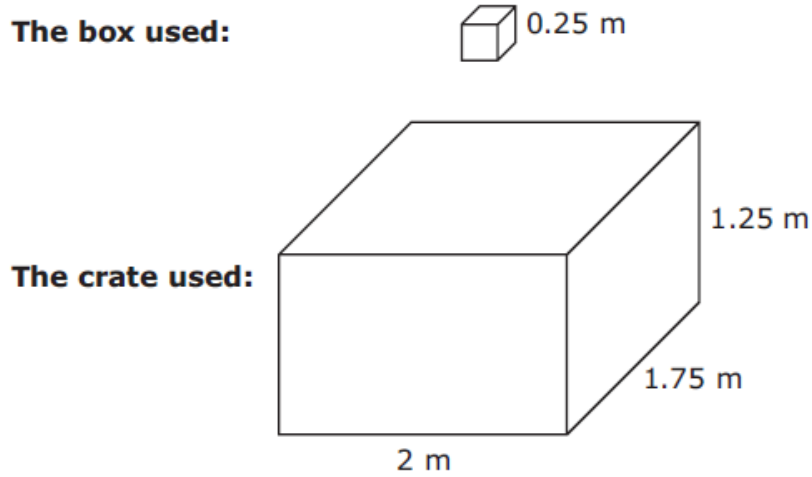
- A) 448 square centimeters
- B) 478 square centimeters
- C) 546 square centimeters
- D) 576 square centimeters

Item Information	
2012 WyCPS Domain:	Geometry
2012 WyCPS Cluster:	Solve real-world and mathematical problems involving area, surface area, and volume.
2012 WyCPS Standard:	6.G.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.
Item Code:	VF865661

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	B	2	655	0.345

Score Analysis					
MC	A	B*	C	D	Omit
%Choosing	25.344	34.504	17.557	22.443	0.153

- 00** A manufacturer ships vases in crates. Each vase is packed in a box in the shape of a cube with an edge length of 0.25 meter. The diagram shows the dimensions, in meters, of the box and the crate used to ship the vases.



What is the greatest number of vases that can be shipped in one crate?

- A) 17
- B) 56
- C) 280
- D) 320

Item Information	
2012 WyCPS Domain:	Geometry
2012 WyCPS Cluster:	Solve real-world and mathematical problems involving area, surface area, and volume.
2012 WyCPS Standard:	6.G.2 Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = lwh$ and $V = bh$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.
Item Code:	VH121646

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2015	MC	C	2	697	0.24

Score Analysis					
MC	A	B	C*	D	Omit
%Choosing	41.607	26.973	23.96	7.461	0