# Generated Questions

## Question 1

### Pizza Topping Combinations

Calculating the number of possible pizza topping combinations.

A local pizzeria offers 3 different types of crusts and 4 different types of cheese. How many different pizza combinations are possible if you must choose one crust and one cheese?

Instruction: Calculate the total number of different pizza combinations.

Difficulty: easy | Subject: Quantitative Math | Unit: Problem Solving | Topic: Probability and Statistics | Marks: 1

* 7
* 10
* 12
* 16

Explanation: To find the total number of combinations, multiply the number of crust choices by the number of cheese choices: 3 crusts \* 4 cheeses = 12 combinations.

## Question 2

### Geometry Problem

Determining dimensions of a rectangular container holding cubes.

The top view of a rectangular box containing 9 identical, tightly packed cubes is shown. If each cube has a side length of 3 centimeters, which of the following are closest to the dimensions, in centimeters, of the rectangular box?

Instruction: Choose the closest dimensions of the rectangular box.

Difficulty: easy | Subject: Quantitative Math | Unit: Problem Solving | Topic: Geometry and Measurement | Marks: 1

* 9 cm x 9 cm x 3 cm
* 9 cm x 6 cm x 3 cm
* 9 cm x 3 cm x 3 cm
* 6 cm x 3 cm x 3 cm

Explanation: The top view shows 3 cubes along one side and 3 cubes along another. Since each cube has a side length of 3 cm, the dimensions of the rectangular box are 3 cubes \* 3 cm/cube = 9 cm along one side, and 3 cubes \* 3 cm/cube = 9 cm along another side. The height of the box is equal to the side length of a single cube (3 cm). Therefore the dimensions are 9 cm x 9 cm x 3 cm, which is not one of the options. However, given the choices, 9cm x 3cm x 3cm represents a possible arrangement of 9 cubes, although the image shows a square arrangement of 9 cubes.