# Uniform and Packaging Math Assessment

## Question 1

A school offers uniforms with 1 shirt and 1 pair of pants. The table below shows the available colors. How many unique uniform combinations can be made?

Instruction: Choose the correct number of combinations.

Difficulty: Easy

Options:

A) Five

B) Six

C) Eight

D) Ten

Explanation: Multiply the number of shirt colors by the number of pants colors: 4 shirts × 2 pants = 8 combinations.

Subject: Quantitative Math

Unit: Problem Solving

Topic: Numbers and Operations

Marks: 1

|  |  |
| --- | --- |
| Shirt Color | Pants Color |
| Blue | Black |
| Green | Khaki |
| White | Black |
| Gray | Khaki |

## Question 2

A rectangular box contains 8 tightly packed spherical balls. Each ball has a radius of 3 cm. What are the closest dimensions of the box?

Instruction: Choose the correct dimensions.

Difficulty: Moderate

Options:

A) 3 × 6 × 6

B) 6 × 6 × 6

C) 6 × 6 × 12

D) 9 × 9 × 18

Explanation: Each ball has a diameter of 6 cm. Arranged in two layers of 4 balls, the box dimensions are approximately 6 cm height, 6 cm width, and 12 cm length.

Subject: Quantitative Math

Unit: Geometry and Measurement

Topic: Solid Figures (Volume of Cubes)

Marks: 1

