Generated Math Questions

# Question 1

@title School Lunch Combinations Assessment  
@description Assessment on counting principles and combinations  
  
@question Each student at Riverside Elementary School can choose a lunch combination   
consisting of 1 main dish, 1 side dish, and 1 drink. The table shows the available options:  
  
Main Dish: Pizza, Burger, Chicken, Pasta  
Side Dish: French Fries, Salad, Fruit Cup   
Drink: Milk, Water, Juice  
  
How many different lunch combinations are possible?  
@instruction Select the correct answer from the options below.  
@difficulty moderate  
@Order 1  
@option Eleven  
@option Sixteen  
@option Twenty-four  
@@option Thirty-six  
@option Forty-eight  
@explanation 4 main dishes × 3 side dishes × 3 drinks = 36 combinations  
@subject Quantitative Math  
@unit Data Analysis & Probability  
@topic Counting & Arrangement Problems  
@plusmarks 1

# Question 2

@title Cylindrical Container Packing Assessment  
@description Assessment on geometry and spatial reasoning  
  
@question The side view of a rectangular box containing 8 tightly packed cylindrical cans   
is shown. Each can has a radius of 3 cm and height of 10 cm. The cans are arranged in 2 rows of 4 cans.   
Which dimensions are closest to those of the rectangular box?  
@instruction Select the correct answer from the options below.  
@difficulty moderate  
@Order 2  
@option $6 \times 12 \times 10$  
@option $10 \times 12 \times 24$  
@@option $12 \times 24 \times 10$  
@option $18 \times 24 \times 10$  
@option $12 \times 24 \times 15$  
@explanation Width: 2 rows × 6 cm diameter = 12 cm, Length: 4 cans × 6 cm = 24 cm, Height: 10 cm  
@subject Quantitative Math  
@unit Geometry and Measurement  
@topic Solid Figures (Volume of Cubes)  
@plusmarks 1

Question Diagram:

