

FEEDING A VILLAGE

AN OLYMPIC MILK STORY IN NUMBERS

18,000
athletes, coaches, and staff in the Olympic Village

AN OLYMPIC ATHLETE WILL NEED TO CONSUME BETWEEN 96,000 - 160,000 CALORIES OVER THE OLYMPIC PERIOD

960,000
meals will be prepared

EATEN OFF 4,000,000 BIODEGRADABLE PLATES.
USING 250,000 KGS OF RAW INGREDIENTS.

4.16 =
GLASSES OF MILK



To produce 1 litre of milk a cow will eat 5.7 kilograms of green grass.

$$335 \text{ cows} \times (5.7 \text{ kg grass per litre} \times 14 \text{ litres required}) = 26,800 \text{ kgs green grass}$$

335 cows would need to eat 26,800 kgs of green grass to produce 4,688 litres of milk

75,000 LITRES OF MILK \div **16** DAYS \div **14** LITRES
(Total needed for the Olympics) (Number of days the Olympics runs for) (A cow produces 14L of milk a day)
= 334.82 COWS PER DAY

The Olympic Village needs **75,000** LITRES OF MILK



The Olympics Runs For **16 DAYS**

$$75,000L \div 0.24L \div 16 \text{ DAYS} = 19,531$$

19,531 glasses of milk for **18,000** athletes, coaches and staff.

CALCULATE THE VOLUME WITHIN THE GLASS



A 240ML GLASS OF MILK HAS 103 CALORIES

- Energy 624 (kJ)
- Protein 7.92 (g)
- Fat - Saturated 4.8 (g)
- Fat - Total 7.92 (g)
- Carbohydrate - Total 11.52 (g)
- Carbohydrate - Sugars 11.52 (g)
- Sodium 96 (mg)
- Calcium 280.8 (mg)
- Vitamin A 103.2 (µg)
- Riboflavin (B2) 0.48 (mg)

$$V = \pi r^2 h$$

GLASS OF MILK = 240 ML