

# UGC NET Paper 1 2011 dec

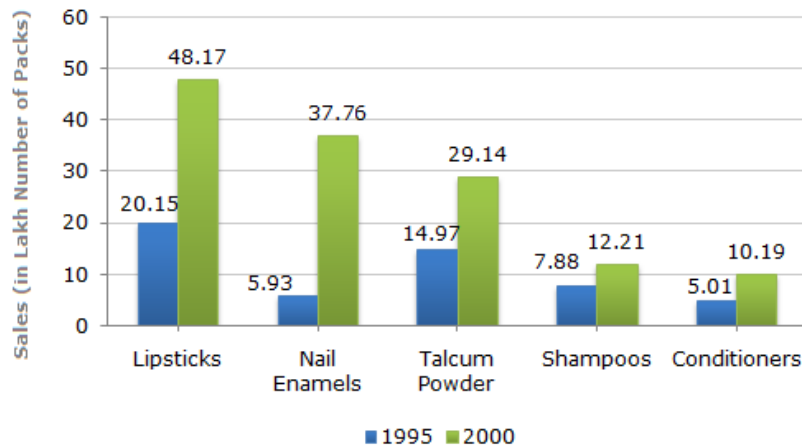
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### Previous Years Solved Questions - UGC NET Paper 1 for July 2018

## DI (Hindi/Eng)-35 with ANS

A cosmetic company provides five different products. The sales of these five products (in lakh number of packs) during 1995 and 2000 are shown in the following bar graph.

Sales (in lakh number of packs) of five different products of Cosmetic Company during 1995 and 2000



The sales of lipsticks in 2000 was by what percent more than the sales of nail enamels in 2000? (rounded off to nearest integer) 2000 में लिपस्टिक की बिक्री 2000 में नेल इनेमल की बिक्री से कितने प्रतिशत अधिक थी? (निकटतम पूर्णांक तक पूर्णांकित)

- [A.](#) 33%
- [B.](#) 31%
- [C.](#) 28%
- [D.](#) 22%

**Answer:** Option C

**Explanation:**

$$\text{Required percentage} = \left[ \frac{(48.17 - 37.76)}{37.76} \times 100 \right] \%$$

$$= 27.57\%$$

$$\approx 28\%.$$

During the period 1995-2000, the minimum rate of increase in sales is in the case of? 1995-2000 की अवधि के दौरान बिक्री में वृद्धि की न्यूनतम दर किसके मामले में है?

- [A.](#) Shampoos
- [B.](#) Nail enamels
- [C.](#) Talcum powders
- [D.](#) Lipsticks

**Answer:** Option A

**Explanation:**

The percentage increase from 1995 to 2000 for various products are:

$$\text{Lipsticks} = \left[ \frac{(48.17 - 20.15)}{20.15} \times 100 \right] \% = 139.06\%.$$

$$\text{Nail enamels} = \left[ \frac{(37.76 - 5.93)}{5.93} \times 100 \right] \% = 536.76\%.$$

$$\text{Talcum powders} = \left[ \frac{(29.14 - 14.97)}{14.97} \times 100 \right] \% = 94.66\%.$$

$$\text{Shampoos} = \left[ \frac{(12.21 - 7.88)}{7.88} \times 100 \right] \% = 54.95\% \approx 55\%.$$

$$\text{Conditioners} = \left[ \frac{(10.19 - 5.01)}{5.01} \times 100 \right] \% = 103.39\%.$$

∴ The minimum rate of increase in sales from 1995 to 2000 is in the case of Shampoos.

What is the approximate ratio of the sales of nail enamels in 2000 to the sales of Talcum powders in 1995? 2000 में नेल इनेमल की बिक्री और 1995 में टैल्कम पाउडर की बिक्री का अनुमानित अनुपात कितना है?

- [A.](#) 7:2
- [B.](#) 5:2
- [C.](#) 4:3

D. 2:1

**Answer:** Option B

**Explanation:**

$$\text{Required ratio} = \frac{37.76}{14.97} \approx 2.5 = \frac{5}{2}.$$

The sales have increase by nearly 55% from 1995 to 2000 in the case of? किस मामले में 1995 से 2000 तक बिक्री में लगभग 55% की वृद्धि हुई है?

- A. Lipsticks
- B. Nail enamels
- C. Talcum powders
- D. Shampoos

**Answer:** Option D

**Explanation:**

The percentage increase from 1995 to 2000 for various products are:

$$\text{Lipsticks} = \left[ \frac{(48.17 - 20.15)}{20.15} \times 100 \right] \% = 139.06\%.$$

$$\text{Nail enamels} = \left[ \frac{(37.76 - 5.93)}{5.93} \times 100 \right] \% = 536.76\%.$$

$$\text{Talcum powders} = \left[ \frac{(29.14 - 14.97)}{14.97} \times 100 \right] \% = 94.66\%.$$

$$\text{Shampoos} = \left[ \frac{(12.21 - 7.88)}{7.88} \times 100 \right] \% = 54.95\% \approx 55\%.$$

$$\text{Conditioners} = \left[ \frac{(10.19 - 5.01)}{5.01} \times 100 \right] \% = 103.39\%.$$

The sales of conditioners in 1995 was by what percent less than the sales of shampoos in 1995? (rounded off to nearest integer) 1995 में कंडीशनर की बिक्री 1995 में शैंपू की बिक्री से कितने प्रतिशत कम थी? (निकटतम पूर्णांक तक पूर्णांकित)

- A. 57%
- B. 36%

C. 29%

D. 25%

**Answer:** Option **B**

**Explanation:**

$$\text{Required percentage} = \left[ \frac{(7.88 - 5.01)}{7.88} \times 100 \right] \%$$

$$= 36.42\%$$

$$\approx 36\%.$$