

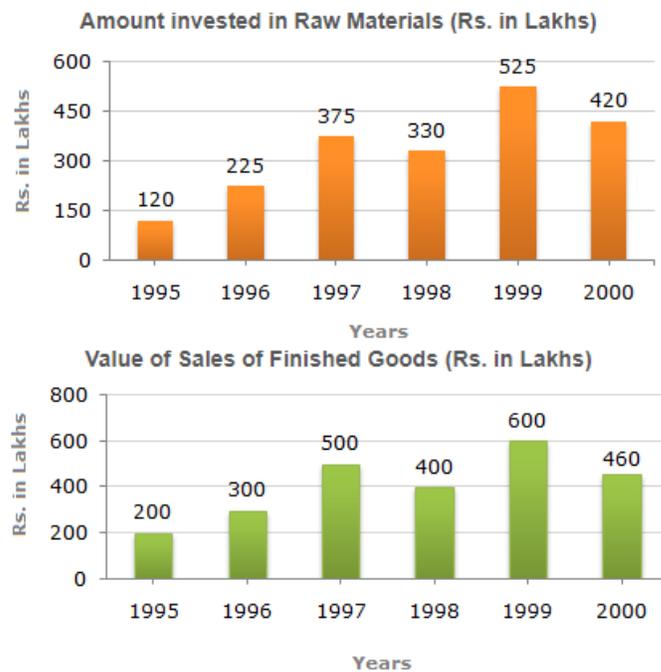
UGC NET Paper 1 2011 dec

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

DI (Hindi/Eng)-32 with ANS

Out of the two bar graphs provided below, one shows the amounts (in Lakh Rs.) invested by a Company in purchasing raw materials over the years and the other shows the values (in Lakh Rs.) of finished goods sold by the Company over the years.



The maximum difference between the amount invested in Raw materials and value of sales of finished goods was during the year? वर्ष के दौरान कच्चे माल में निवेश की गई राशि और तैयार माल की बिक्री के मूल्य के बीच अधिकतम अंतर था?

- A. 1995
- B. 1996
- C. 1997

D. 1998

Answer: Option C

Explanation:

The differences between the amount invested in raw material and the value of sales of finished goods for various years are:

For 1995 = Rs. (200 - 120) lakhs = Rs. 80 lakhs.

For 1996 = Rs. (300 - 225) lakhs = Rs. 75 lakhs.

For 1997 = Rs. (500 - 375) lakhs = Rs. 125 lakhs.

For 1998 = Rs. (400 - 330) lakhs = Rs. 70 lakhs.

For 1999 = Rs. (600 - 525) lakhs = Rs. 75 lakhs.

For 2000 = Rs. (460 - 420) lakhs = Rs. 40 lakhs.

Clearly, maximum difference was during 1997.

The value of sales of finished goods in 1999 was approximately what percent of the sum of amount invested in Raw materials in the years 1997, 1998 and 1999? 1999 में तैयार माल की बिक्री का मूल्य वर्ष 1997, 1998 और 1999 में कच्चे माल में निवेश की गई राशि का लगभग कितना प्रतिशत था?

A. 33%

B. 37%

C. 45%

D. 49%

Answer: Option D

Explanation:

$$\text{Required percentage} = \left[\frac{600}{(375 + 330 + 525)} \times 100 \right] \%$$

$$= 48.78\%$$

$$\approx 49\%.$$

What was the difference between the average amount invested in Raw materials during the given period and the average value of sales of finished goods during this period? दी गई अवधि के दौरान

कच्चे माल में निवेश की गई औसत राशि और इस अवधि के दौरान तैयार माल की बिक्री के औसत मूल्य के बीच का अंतर कितना था?

- A. Rs. 62.5 lakhs
- B. Rs. 68.5 lakhs
- C. Rs. 71.5 lakhs
- D. Rs. 77.5 lakhs

Answer: Option D

Explanation:

Required difference

$$\begin{aligned}
 &= \text{Rs.} \left[\frac{1}{6} \times (200 + 300 + 500 + 400 + 600 + 460) \right. \\
 &\quad \left. - \frac{1}{6} \times (120 + 225 + 375 + 330 + 525 + 420) \right] \text{ lakhs} \\
 &= \text{Rs.} \left[\left(\frac{2460}{6} \right) - \left(\frac{1995}{6} \right) \right] \text{ lakhs} \\
 &= \text{Rs.} (410 - 332.5) \text{ lakhs} \\
 &= \text{Rs.} 77.5 \text{ lakhs.}
 \end{aligned}$$

In which year, the percentage change (compared to the previous year) in the investment on Raw materials is same as that in the value of sales of finished goods? किस वर्ष, कच्चे माल पर निवेश में प्रतिशत परिवर्तन (पिछले वर्ष की तुलना में) तैयार माल की बिक्री के मूल्य के समान है?

- A. 1996
- B. 1997
- C. 1998
- D. 1999

Answer: Option B

Explanation:

The percentage change in the amount invested in raw-materials and in the value of sales of finished goods for different years are:

Percentage change in Amount invested in raw-material:

$$\text{For 1996} = \frac{(225 - 120)}{120} \times 100 \% = 87.5\%.$$

$$\begin{aligned} & 120 \\ \text{For 1997} &= \left[\frac{(375 - 225)}{225} \right] \times 100 \% = 66.67\%. \\ \text{For 1998} &= \left[\frac{(330 - 375)}{375} \right] \times 100 \% = -12\%. \\ \text{For 1999} &= \left[\frac{(525 - 330)}{330} \right] \times 100 \% = 59.09\%. \\ \text{For 2000} &= \left[\frac{(420 - 525)}{525} \right] \times 100 \% = -20\%. \end{aligned}$$

Percentage change in value of sales of finished goods:

$$\begin{aligned} \text{For 1996} &= \left[\frac{(300 - 200)}{200} \right] \times 100 \% = 50\%. \\ \text{For 1997} &= \left[\frac{(500 - 300)}{300} \right] \times 100 \% = 66.7\%. \\ \text{For 1998} &= \left[\frac{(400 - 500)}{500} \right] \times 100 \% = -20\%. \\ \text{For 1999} &= \left[\frac{(600 - 400)}{400} \right] \times 100 \% = 50\%. \\ \text{For 2000} &= \left[\frac{(460 - 600)}{600} \right] \times 100 \% = -23.33\%. \end{aligned}$$

Thus, the percentage difference is same during the year 1997.

In which year, there has been a maximum percentage increase in the amount invested in Raw materials as compared to the previous year? पिछले वर्ष की तुलना में किस वर्ष कच्चे माल में निवेश की गई राशि में अधिकतम प्रतिशत वृद्धि हुई है?

- A. 1996
- B. 1997
- C. 1998
- D. 1999

Answer: Option A

Explanation:

The percentage increase in the amount invested in raw-materials as compared to the previous year, for different years are:

$$\text{For 1996} = \left[\frac{(225 - 120)}{120} \right] \% = 87.5\%.$$

$$\text{For 1997} = \left[\frac{(375 - 225)}{225} \right] \% = 66.67\%.$$

For 1998 there is a decrease.

$$\text{For 1999} = \left[\frac{(525 - 330)}{330} \right] \% = 59.09\%.$$

For 2000 there is a decrease.

∴ There is maximum percentage increase in 1996.