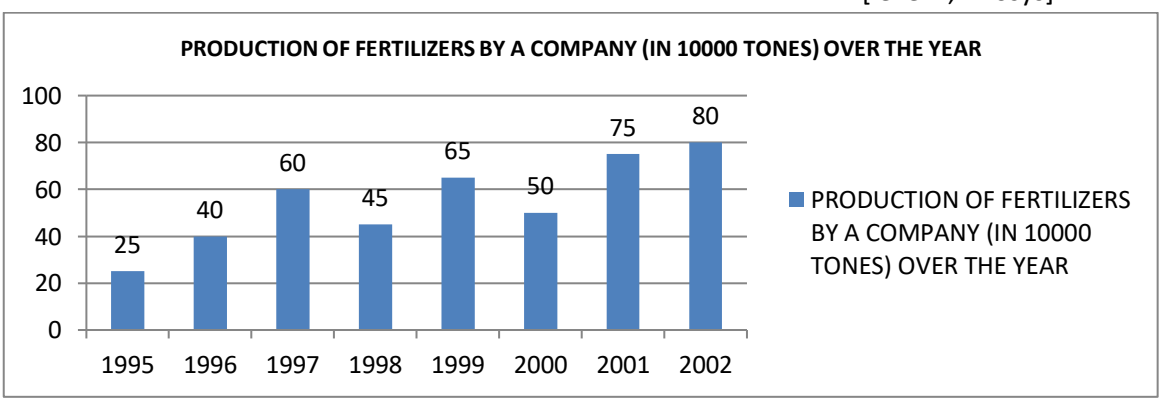
Q1. Evaluate 28% of 450 + 45% of 280 [Level 1, Wipro]
a. 250 b. 251 c. 252 d. 253
Ans: c
Solution:
28% of 450 + 45% of 280 = 2 x (28 x 450)/100 = 252

Q2. In a shop, a discount of 8% is provided. If the total payable after the discount is more than INR 5,000 and an additional discount of 20% is provided, then determine the final amount to be paid by the customer, if he buys 12 products each of price INR 750. [level 2, Accenture]
1) INR 6,724 2) INR 6,624 3) INR 6,424 4) INR 6,524
Ans: 2
Solution:
Price of 12 products = 12 x 750 = Rs 9000
After a discount of 8%, price = 8280 which is more than 5000
So, final payble amount after discount of 20% = Rs 6624

Q3. Find the principal if the interest-compounded at the rate of 10% per annum for two years is 420. [Level 1, Microsoft, Capgemini]
A. 2000 B. 2200 C. 1000 D. 1100
Ans: A
Solution:
$420 = P(1 + 10/100)^2 - P$
So, P = 2000

Q4. Three persons A, B and C divide a certain amount of money such that A's share is Rs.4 less than half of the total amount. B's share is Rs.8 more than half of what is left and finally C takes the which is Rs.14. Find the total amount they initially had with them? [Level 2, TCS]
A. Rs.61 B. Rs.85 C. Rs.80 D. Rs.70
Ans: C
Solution: Let total = x
A = x/2 – 4, remaining amount = x – (x/2 – 4) = x/2 + 4
B = ½ (x/2 + 4) + 8, Remaining = x/2 + 4 – [½ (x/2 + 4) + 8] = x/4 – 6
According to question, x/4 – 6 = 14
So, x = 80

Q5: Directions: Study the following bar graph & answer the following questions.
[level 2, Infosys]



In how many of the given years was the production of fertilizers more than the average production of the given years?

a)1 b)2 c)3 d)4

Ans: d

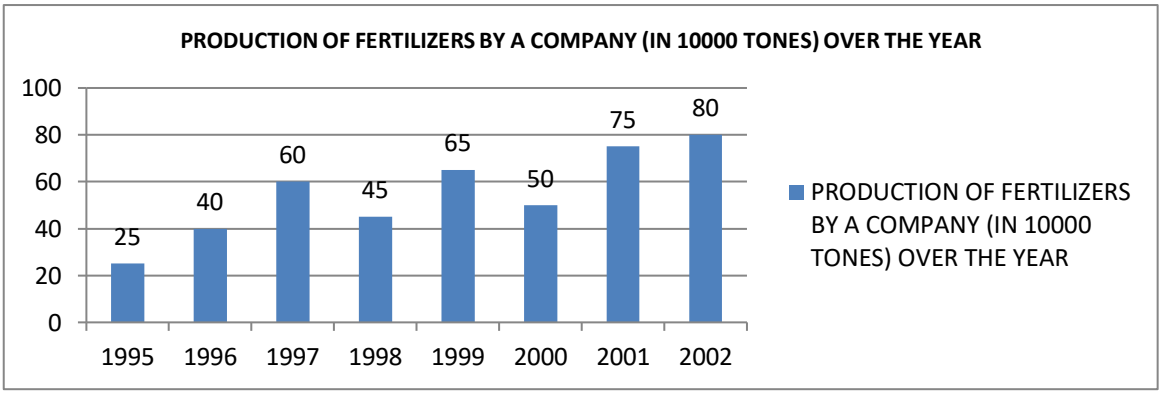
Solution:

Average production (in 10000 tonnes) over the given years = (25 + 40 + 60 + 45 + 65 + 50 + 75 + 80)/8 = 55.

Therefore, the productions during the years 1997, 1999, 2001 and 2002 are more than the average production.

Q6: Directions: Study the following bar graph & answer the following questions.

[level 2, Infosys]



The average production of 1996 and 1997 was exactly was equal to the average production of which of the following pair of years?

a)2000 and 2001 b)1999 and 2000 c)1998 and 2000 d)1995 and 2001

Ans: D

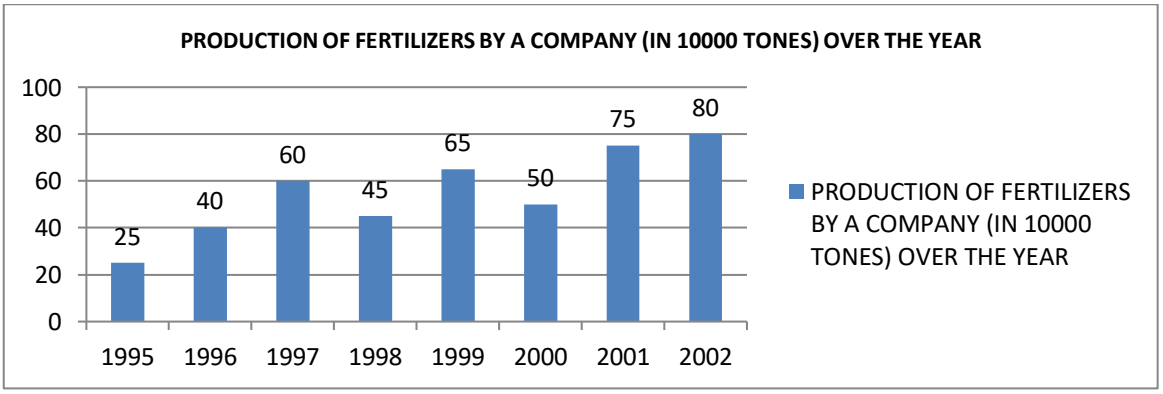
Solution:

Average production (in 10000 tonnes) of 1996 and 1997 = (40 + 60)/2 = 50.

Similarly, calculate the average production for the years given in the options and then compare.

Q7: Directions: Study the following bar graph & answer the following questions.

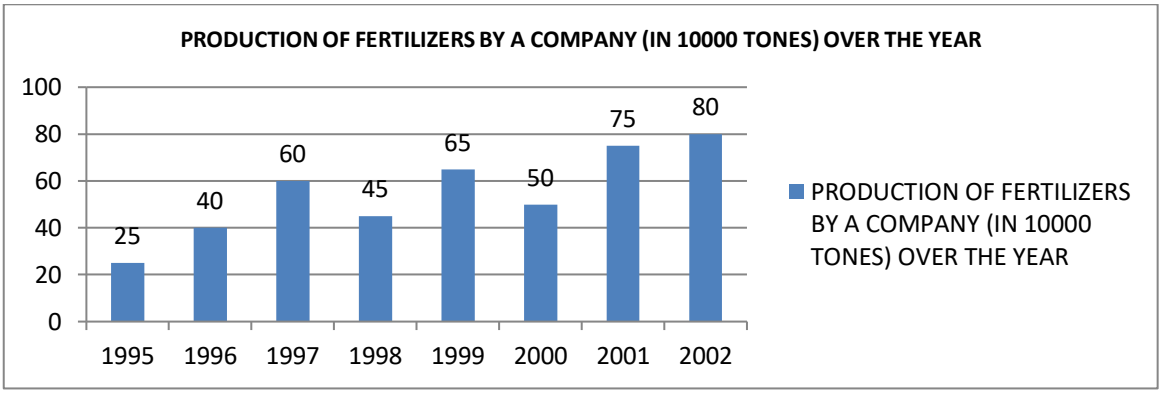
[level 2, Infosys]



What was the percentage decline in the production of fertilizers from 1997 to 1998?

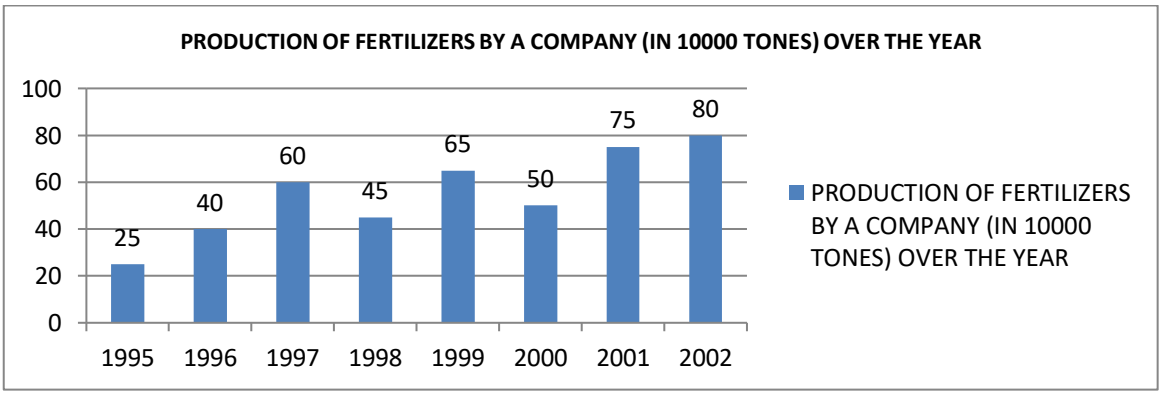
a)33.33% b)30% c)25% d)21%
Ans: C
Solution:
Required percentage = [(45 - 60)/60] x 100% = -25%.
Therefore, There is a decline of 25% in production from 1997 to 1998.

Q8: Directions: Study the following bar graph & answer the following questions.
[level 2, Infosys]



In which year was the percentage increasing production as compared to the previous year the maximum?
a)2002 b)2001 c)1996 d)1997
Ans: C
Solution:
The percentage increase in production compared to previous year for different years are:
(Change in production/Production during previous year) x 100%

Q9: Directions: Study the following bar graph & answer the following questions.
[level 2, Infosys]



What was the percentage increase in production of fertilizers in 2002 compared to that in 1995?
a)320% b)300% c)220% d)200%
Ans: C
Solution:
Required percentage = [(80 - 25) x 100]/25 % = 220%.

Q10. Two trains start from Delhi and Poona towards each other at 7 a.m. with speeds of 85 km/hr and 67km/hr, respectively. If they cross each other at 3.30 p.m., the distance between the stations is: [Level 2, Wipro]

1) 1245 km 2) 1292 km 3) 1283 km 4) 1227 km

Ans: 2

Solution

Given,

Starting time = 7 am

Speed of first train = 85 km/hr

Speed of second train = 67 km/hr

Crossing time = 3:30 pm

We know, Speed = Total distance ÷ Time

According to the question,

Trains are moving in opposite directions.

Relative Speed = 85 + 67 = 152 km/hr

Now, the total time taken to cross each other = (7 am – 3:30 pm) = 8.5 hours

So, the total distance between the stations

= Relative Speed × Time Taken

= 152 × 8.5 = 1292 km

Hence, the correct answer is 1292 km.

Q11. A man travelled a certain distance by train at the speed of 50 km/hr and walked back the same distance at the speed of 10 km/hr. If the whole journey took 12 hours, then what was the distance travelled by train? [Level 2, TCS]

1) 100 km 2) 180 km 3) 150 km 4) 120 km

Ans: 1

Speed of train = 50 km/hr

Speed of walking = 10 km/hr

Total time for journey = 12 hours

Let the distance to be covered be d km.

Time taken by train = d/50

Time taken by walking = d/10

According to the question :

d/50 + d/10 = 12

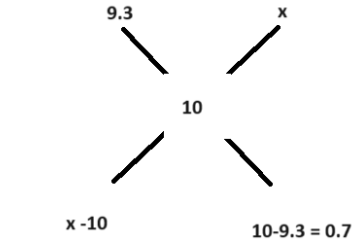
So, d =100 km

Q12. One quantity of wheat at Rs 9.30 per Kg is mixed with another quality at a certain rate in the ratio 8:7. If the mixture so formed be worth Rs 10 per Kg, what is the rate per Kg of the second quality of wheat? [level 2, Wirpo. TechM]

A. 12.47 B. 10.80 C. 15.17 D. 47.66

Ans: B

Solution:



(x-10)/0.7 = 8/ 7

So, x = 10.8

Q13. A, B, C can complete a task in 6,8,12 days respectively. They completed the task together and they get Rs1350. What is share of B in it? [Level 2, Accenture]

A. Rs 420 B. Rs 450 C. Rs430 D. None of these

Ans: B

Solution:

Total work = LCM of 6, 8, and 12 = 24

Efficiency of A = 24/6 = 4

Efficiency of B = 24/8 = 3

Efficiency of C = 24/12 = 2

Share of B = 3/(4 + 3 + 2) x 1350 = Rs 450

Q14. In an examination, there are five subjects and each has the same maximum. A boy's marks are in the ratio 3: 4 : 5 : 6 : 7 and his aggregate is 3/5 th of the full marks. In how many subjects did he get more than 50% marks? [Level 2, Accenture]

A. 1 B. 2 C. 3 D. 4

Ans: C

Solution:

Let's assume that the maximum marks are 100.

Total marks available =500

Total marks obtained by all 5 together = 3/5 × 500 = 300 which is divided in the ratio 3:4:5:6:7

Marks are 36, 48, 60, 72 and 84. Only 3 students get more than 50%

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Q15. If $17^x = 4913$, find the value of 2^{2x-1}. [Level 2, Wipro]

a) 16 b) 32 c) 64 d) 128

Ans: B

Solution:

$17^x = 4913 = 17^3$

So, x = 3

And, $2^{2x-1} = 2^{6-1} = 32$