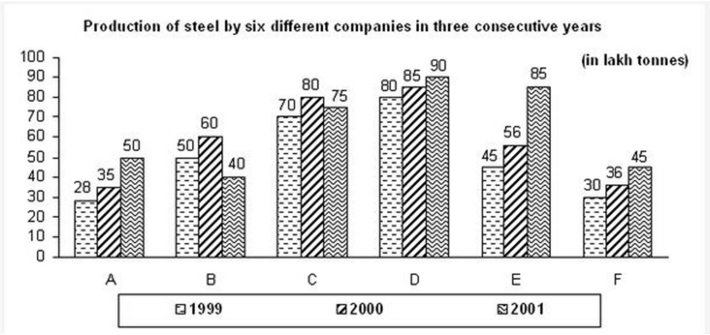
These questions are based on the bar graph given below.



1. For which of the following companies is the percentage increase in the production of steel the highest from 1999 to 2000?

A. A

B. B

C. D

D. E

E. F

2. For which of the following companies is the average production for all the three years the least?

A. A

B. B

C. C

D. E

E. F

3. Approximately by what percentage was the total production of all the six companies in 2000 more than the total production of all the companies in 1999?

A. 11%

B. 12%

C. 13%

D. 14%

E. 16%

4. The total production of company A for the given years exceeds that of the company F by approximately _____.

A. 1.8%

B. 2%

C. 2.2%

D. 2.4%

E. 3%

5. The average annual growth in the production of steel of company D is _____ (lakh tonnes).

A. 2.5

B. 3.3

C. 5

D. 6.6

E. None of these

6. 105 , 185 , 247 , 293 , ?

A. 338

B. 315

C. 325
D. 225
E. None of these
7. 5, 10, 30, 105 ?
A. 220
B. 440
C. 230
D. 240
E. None of these
8. 4 , 2, 2, 3, 6, ?
A. 15
B. 12
C. 11
D. 14
E. None of these
9. 5, 14 , 40 , 117 , ?
A. 317
B. 327
C. 337
D. 347
E. None of these
10. 15 , 22, 72, 552 , ?
A. 4500
B. 4592
C. 8800
D. 4763
E. None of these
11. How much did Sohil get as profit at the year-end in the business done by Animesh, Sohil and Akhilesh?
Statements:
1.Akhilesh invested Rs.8000/- for nine months, his profit was 3/2 times that of Sohil's and his investment was 4 times that of Animesh.
2.Animesh and Sohil invested for one year and in the proportion 1:2 respectively.
3.The three together got Rs.1000/- as profit at the year end.
A. Only 1 and 2 together are sufficient
B. Only 1 and 3 together are sufficient
C. 1, 2 and 3 together not sufficient
D. 1,2 and 3 together are not necessary
E. None of these
12. What is the amount invested in scheme B?
Statements:
1.The amounts invested in schemes A and B are in the ratio 2:3
2.Amount invested in scheme A is 40% of the total amount invested.
3.Amount invested in scheme A is Rs.45000/-
A. Only 1 and 2

B. Only 1 and 3
C. Only 2 and 3
D. Only 3 and either 1 or 2
E. None of these

13. What is the cost of flooring the rectangular hall?

Statements:

1.Length of the rectangle is 6m
2.Breadth of the rectangle is two-third of its length
3.Cost of flooring the area of 100cm^2 is Rs.45/-

A. Only 1 and 3
B. Only 2 and 3
C. All 1, 2 and 3
D. Question can't be answered with the given data
E. None of these

14. A trader buys two articles at the same price. He sold one article at 20% profit and sold the other at 10% loss . Find his overall profit/loss percentage

A. 10% loss
B. 10% profit
C. 5% loss
D. 5% profit.
E. None of these

15. If a book is sold at 20% more than its usual price, an extra profit of Rs.120 would be made on it. find its usual selling price.

A. Rs.500
B. Rs.600
C. Rs.750
D. Rs.800
E. None of these

16.The loss made by selling 20 m of a cloth equals the cost price of 5 m of that cloth. Find the loss percentage

A. 33 1/3%
B. 25%
C. 20%
D. 40%
E. None of these

17. I. $72x^2 + x - 1 = 0$
II. $63y^2 - 25y + 2 = 0$
A. if $x \geq y$
B. if $x > y$
C. if $x < y$
D. if $x \leq y$
E. if the relation between x and y cannot be established.

18. I. $56x^2 + 37x + 6 = 0$
II. $66y^2 - 13y - 4 = 0$
A. if $x \geq y$

B. if x > y
C. if x < y
D. if x ≤ y
E. if the relation between x and y cannot be established.
19. I. 77×2 + 58x + 8 = 0
II. 42y2 + 59y + 20 = 0
A. if x ≥ y
B. if x > y
C. if x < y
D. if x ≤ y
E. if the relation between x and y cannot be established.
20. The average age of 30 boys of a class is equal to 14 years. When the age of the class teacher is included the average becomes 15 years. Find the age of the class teacher?
A. 50
B. 44
C. 45
D. 42
E. None of these
21. The arithmetic mean of the scores of a group of students in a test was 52. The brightest 20% of them secured a mean score of 80 and the dullest 25% a mean score of 31. The mean score of remaining 55% is:
A. 51.4
B. 52.6
C. 56.1
D. 55.3
E. None of these
22. Among the three number the first is thrice the third number and second number is half of the first number. If the average of the three number is 65.8 then find the third number
A. 35.56
B. 35.85
C. 35.89
D. 35.69
E. None of these
23.The population of a town is 176000.If it increase at the rate of 5% per annum ,what will be it's population 2 years hence?
A. 194000
B. 194040
C. 190440
D. 194104
E. None of these
24. Mil contain 10% of water. What quantity of pure milk is should be added to 15litre of milk to reduce the water percentage is 7%
A. 6 lit
B. 6.4 lit

C. 6.2 lit
D. 6.6 lit
E. None of these
25. The population of a city is increased 5% ,7% and 11% in the last three years, What will be the present population if the population of a town is 2,40,000 three years ago ?
A. 2,99,600
B. 2,99,500
C. 2,99,400
D. 2,99,300
E. None of these
26. 5 men and 10 boys can do a piece of work in 30 days and 8 men and 12 boys can do the work in 20 days then the ratio of daily work done by a man to that of boy.
A. 5:1
B. 6:1
C. 7:3
D. 4:5
E. None of these
27. Ram and shyam can do a piece of work in 5 and 7 days respectively. They start working alternatively starting from shyam, then in how many days the work is completed
A. 5.(3/7) days
B. 6.(5/7) days
C. 7.(5/6) days
D. 5.(6/7) days
E. None of these
28. A father said to his son, "I was as old as you are at present at the time of your birth." If the father's age is 38 years now, the son's age five years back was:
A.14
B.19
C.38
D.40
E.None of these
29. At presentVivek age is twice Dina's age and half of Kanan's age. After 4 years Vivek will be 1.5 times Dina's age and Kanan will be 2.5 times Dina's age, then find the Kanan's age.
A.16years
B.14years
C.18years
D.22years
E.None of these
30.The effective annual rate of interest corresponding to the nominal rate of 4% per annum payable half yearly is
A. 4
B. 4.4%
C. 4.04%
D. 4.2%
E. None of these

31. David invested certain amount in three different schemes A, B and C with the rate of interest 10% p.a., 12% p.a. and 15% p.a. respectively. If the total interest accrued in one year was Rs. 3200 and the amount invested in Scheme C was 150% of the amount invested in Scheme A and 240% of the amount invested in Scheme B, what was the amount invested in Scheme B?

A. Rs 5000

B. Rs 6500

C. Rs 8000

D. Rs 10000

E. None of these

32. How much water must be added to 100cc of 80% solution of Boric acid to reduce it to a 50% solution?

A. 30

B. 40

C. 50

D. 60

E. None of these

33. P and Q started a partnership business investing some amount in the ratio of 3:5. R joined them after six months with an amount equal to that of Q. In what proportion should the profit at the end of one year be distributed among P, Qand R?

A.5 : 8 : 10

B.6 : 10 : 5

C.6 : 4 : 10

D.10 : 6 : 3

E. None of these

34. A boat goes 6 km against the current of the stream in 2 hours and goes 8 km along the current in half hour. How long will it take to go 28.5 km in stationary water?

A. 4 1/2 hours

B. 3 hours

C. 3 1/2 hours

D. 4 hours

E. None of these

35. The sum of three numbers is 123. If the ratio between first and second numbers is 2:5 and that of between second and third is 3:4, then find the difference between second and the third number.

A.12

B.14

C.15

D.17

E.None of these

36. A bag contains 3 red, 4 green and 3 yellow balls. If 2 balls are drawn at random, what is the probability that they are of different color?

A. 9/16

B. 4/15

C. 11/15

D. 5/11

E. None of these

37. A bag contains 4 red balls and 5 black balls. In how many ways can i make a selection so as to take atleast 1 red ball and 1 black ball ?

A. 564

B. 345

C. 465

D. 240

E. None of these

38. If the sides of a equilateral triangle is increased by 10% , 30%and 60%then a new triangle is formed. By what % perimeter of the triangle is increased ?

A. 40.50%

B. 32.45%

C. 33.33%

D. 35.67%

E. None of these

39. Ramu started from A towards B at a speed of 20Km/hr and Raju started from B towards A. They crossed each other after one hour. Raju reached his destination 5/6 hour earlier than Ramu reached his destination.Then what is the distance between A and B?

A. 40 Km

B. 50 Km

C. 60 Km

D. 80 Km

E. Cannot be determined

40. Two Cars started at same time, same place and towards same direction. First Car goes at a speed of 5km/hr in first and 7 Km/hr in second hour and repeats the cycle over the entire journey. Similarly second Car goes at 4km/hr in first hour and 9km/hr in second hour and repeats the cycle over the entire journey.Then these two Cars for the first time for after how many hours of journey?

A. 3 Hours

B. 6 Hours

C. 9 Hours

D. 12 Hours

E. None of these