

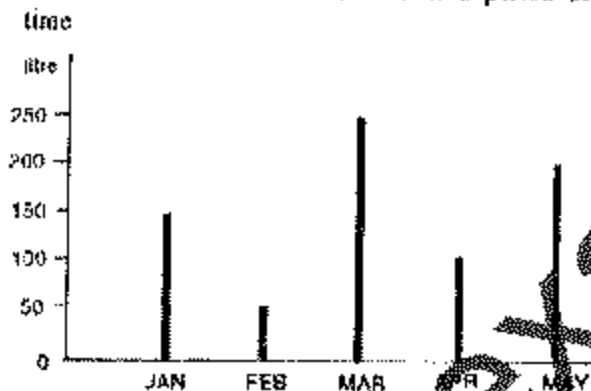
# QUANTITATIVE APTITUDE

Quantitative Aptitude is a part of verbal reasoning which requires the ability to reason with numbers and diagrams involving numbers.

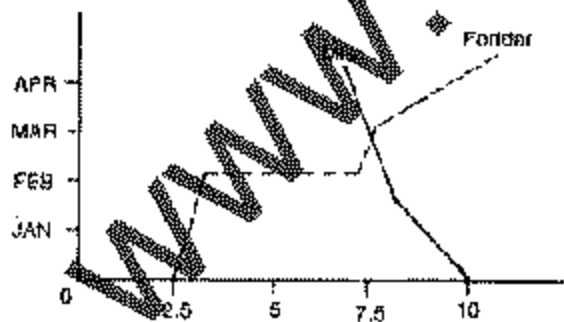
Graphs are the important concept which provide comparisons and trends in statistical information. There are many types of graphs. The most commonly used graph are given here.

## LINE GRAPHS

It is used to show trends over a period of time



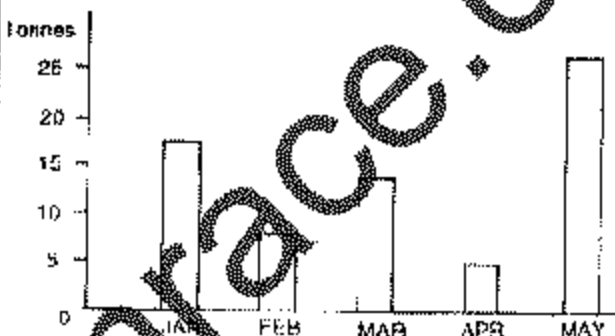
This graph shows monthly production.



This graph shows monthly output.

## BAR GRAPHS

It is used to compare various quantities.



This graph shows monthly expenditure.

## CIRCLE OR PIE GRAPHS

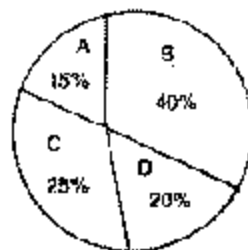
It is used to show the relationship of various parts of a quantity to each other and to whole quantity. Percentage are often used in this graph.  $360^\circ$  of the circle represent 100%.

A = 15%

B = 40%

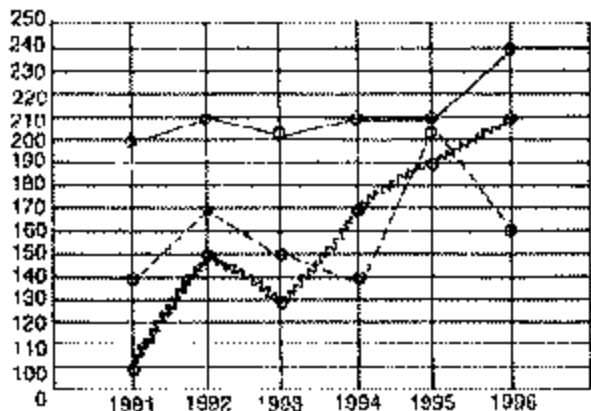
C = 25%

D = 20%



Direction: Study the graph below and answer

questions 1 to 7 :



- Selling price per 1000 pieces
- - - Manufacturing production per 1000 pieces
- ..... Manufacturing cost per 1000 pieces

Graph showing production, cost of production and selling income of a drug company from 1991 to 1996.

- In which year was the output lowest but turnover in rupees the maximum ?  
(a) 1995 (b) 1994

- (c) 1996 (d) 1993
- Which year was the least profitable from the fiscal point of view ?  
(a) 1994 (b) 1995  
(c) 1996 (d) 1993
- Calculate gross profit in rupees gained during 1992.  
(a) Rs. 10,800 (b) Rs. 15,000  
(c) Rs. 27,000 (d) Rs. 37,000
- Which year registered maximum growth in turnover?  
(a) 1992 (b) 1994  
(c) 1995 (d) 1996
- Which of the following years has the maximum negative growth as compared to its earlier years?  
(a) 1992 (b) 1993  
(c) 1994 (d) 1995
- In which year maximum profit was generated vis-a-vis input used?  
(a) 1991 (b) 1992  
(c) 1993 (d) 1995
- Calculate the difference in the manufacturing cost of 1996 and 1991 productions.  
(a) Rs. 18,000 (b) Rs. 19,000  
(c) Rs. 19,060 (d) Rs. 19,600

## MULTIPLE CHOICE QUESTIONS

Direction : In each of the following series a wrong number is given. Find out that number.

- 3, 4, 8, 17, 32, 58, 94

- (a) 4 (b) 17
- (c) 17 (d) 58
- (e) 58

- 5, 8, 15, 25, 43, 49, 87

- (a) 8 (b) 15
- (c) 25 (d) 43
- (e) 79

- 2, 3, 6, 15, 35, 115, 630

- (a) 3 (b) 6
- (c) 15 (d) 45
- (e) 135

- 1, 5, 10, 37, 91, 216, 432  
(a) 5 (b) 10  
(c) 37 (d) 91  
(e) 216
- 2, 3, 7, 13, 26, 47, 78  
(a) 3 (b) 7  
(c) 13 (d) 26  
(e) 47

Direction : In each of the following questions find out what should come in place of this question mark.

- $\frac{7}{4} - \frac{?}{4} = 1$   
(a)  $\frac{3}{4}$  (b) 10

- (c) 7 (d) 3  
 (e) None of these
7. 7% of 80 = 32  
 (a) 4 (b) 40  
 (c) 256 (d) 25.6  
 (e) None of these
8.  $\frac{2}{3} \div \frac{4}{3} \times \frac{1}{2} = ?$   
 (a)  $\frac{1}{4}$  (b)  $\frac{4}{9}$   
 (c)  $\frac{9}{4}$  (d)  $\frac{4}{3}$   
 (e) None of these
9.  $5252 + 13 + 189 = ?$   
 (a) 693 (b) 683  
 (c) 26 (d) 233  
 (e) None of these
10.  $\frac{\sqrt{7}}{5} = 0.05$   
 (a) 0.5 (b) 0.625  
 (c) 0.0625 (d) 0.25  
 (e) None of these
11. 16% of 16% of 250 =  
 (a) 2.4 (b) 5.1  
 (c) 6.4 (d) 8.1  
 (e) None of these
12.  $.1 \times 0.1 \times 1 \times .1 \times .01 \times 1 =$   
 (a) 1 (b) .0001  
 (c) .000001 (d) .00006  
 (e) None of these
13. If 50 men working 5 hours a day can do a piece of work in 10 days, then how many days can 80 men do three times the work by working 10 hours a day?  
 (a)  $3\frac{1}{8}$  (b)  $6\frac{1}{4}$   
 (c)  $9\frac{1}{8}$  (d)  $9\frac{3}{8}$   
 (e) None of these
14. A can build a house in 4 days and B in 5 days. The first half of the work is done only by B and the second half only by A. When the first half work is done, there is a gap of one day before A starts the work. In how many days will the half be built?  
 (a) 2 (b) 3

- (c)  $4\frac{1}{2}$  (d)  $5\frac{1}{2}$
15. What percentage is equivalent to  $3\frac{3}{8}$ ?  
 (a)  $25\frac{1}{2}\%$  (b)  $33\frac{1}{2}\%$   
 (c)  $37\frac{1}{2}\%$  (d) 45%  
 (e) None of these
16. Kamla has 5 rupees more than Laxmi and 2 rupees more than Bela. The total money possessed by them is Rs. 30. What is Bela's share?  
 (a) 5 (b) 6  
 (c) 7 (d) 8  
 (e) None of these
17. The ratio between X and Y is 3 : 5 and between Y and Z is 4 : 5. What is the ratio between X : Z?  
 (a) 1 : 2 (b) 3 : 9  
 (c) 11 : 25 (d) 12 : 25  
 (e) None of these
18. Three persons are walking from A to B. Their speed is in the ratio of 4 : 5 : 6. What will the ratio in the time taken by them?  
 (a) 6 : 5 : 4 (b) 10 : 12 : 15  
 (c) 12 : 10 : 8 (d) 16 : 25 : 36  
 (e) None of these
19.  $30066 + 330 = ?$   
 (a) 102 (b) 1002  
 (c) 100002 (d) 100.2  
 (e) None of these
20.  $\frac{(1)^4 + (3)^2}{(4)^2} = ?$   
 (a)  $\frac{5}{8}$  (b)  $\frac{7}{8}$   
 (c)  $\frac{11}{16}$  (d) 1  
 (e) None of these
21.  $3.7 \times 0.07 + 2.3 + 8.8 = ?$   
 (a) 2.559 (b) 8.769  
 (c) 11.359 (d) 17.569  
 (e) None of these
22.  $32.11 - 5.733 = ? + 10$   
 (a) 16.377 (b) 15.377  
 (c) 16.367 (d) 16.267  
 (e) None of these

$$23. \frac{1}{6} \times \frac{2}{5} + \frac{1}{3} = ?$$

- (a)  $3/15$  (b)  $2/5$   
 (c)  $2/15$  (d)  $2/45$   
 (e) None of these

**Direction :** Find out the approximate value of you will need to calculate the exact value of 9.

$$24. \frac{\sqrt{575}}{\sqrt{1295}} = 9$$

- (a)  $2/3$  (b)  $1/3$   
 (c)  $2/5$  (d)  $3/4$   
 (e)  $1/4$

$$25. 234\% \text{ of } 47 = 9$$

- (a) 95 (b) 90  
 (c) 110 (d) 115  
 (e) 120

$$26. 9 + 1236 \times 0.125 = 745$$

- (a) 609 (b) 650  
 (c) 750 (d) 950  
 (e) 550

$$27. 36\sqrt{2} + 48 = 9$$

- (a) 75 (b) 90  
 (c) 93 (d) 117  
 (e) 102

$$28. 81\% \text{ of } 712 = 9$$

- (a) 550 (b) 570  
 (c) 600 (d) 525  
 (e) 625

29. The income of W was X which increased by y%. If his income now is Z. What was his original income ?

- (a)  $\frac{Xy}{100}$  (b)  $\frac{100Z}{Xy}$   
 (c) X (d)  $Z - X$

30. 0.04 expressed in percentage is

- (a) 1% (b) 4%  
 (c) 16% (d) 25%

31. The area of a square is 64 sq. km. What is the length of its diagonal in km. ?

- (a) 8 (b) 10.2

32. A tap can fill a tank in 8 hours. A drain can empty it in 6 hours. The tank is half full. Both the tap and the drain are opened. In how many hours will it be totally emptied ?

- (a) 6 (b) 9  
 (c) 12 (d) 15

33. If X gets 20% less than Y, Y gets ----% than X.

- (a) 15 (b) 20  
 (c) 25 (d) 27

34. .35 of 24 ÷ 8 of .6 =

- (a) 1.34 (b) 2.38  
 (c) .134 (d) .175

35. A man plants 15625 apple trees in his garden and arranges them so that there are as many rows as there are apple trees in any one row. Then the number of rows =

- (a) 125 (b) 85  
 (c) 105 (d) 135  
 (e) None of these

36. Of the three numbers, first is twice the second and second is twice the third. The average of the three numbers is 21. Find the largest number of the three.

- (a) 36 (b) 38  
 (c) 7 (d) 48  
 (e) None of these

37. The H.C.F of two numbers is 11 and their L.C.M. is 7700. If one of these numbers is 275, then the other is

- (a) 279 (b) 283  
 (c) 308 (d) 318  
 (e) None of these

38. The sum of two numbers is 528 and their H.C.F is 33. The number of pairs of numbers satisfying this conditions.

- (a) 16 (b) 12  
 (c) 8 (d) 4  
 (e) None of these

39. The value of  $\frac{\sqrt{81}}{\sqrt{0.09}}$  is

- (a) 3 (b) 0.3  
 (c) 30 (d) 300  
 (e) None of these

40. 24 men working at 8 hours a day can finish a work in 10 days. Working at a rate of 10 hours

a day, the number of men required to finish the same work in 6 day is

- (a) 30 (b) 32  
(c) 34 (d) 36  
(e) None of these

41. A sum becomes Rs. 217.50 in  $2\frac{1}{2}$  years at the rate of  $3\frac{1}{2}\%$ . What is the original sum?

- (a) Rs. 180 (b) Rs. 190  
(c) Rs. 200 (d) Rs. 210

42.  $(11)^3 \times (11)^2 = ?$

- (a)  $(11)^{10}$  (b)  $(11)^{15}$   
(c)  $(11)^7$  (d)  $(22)^7$

43. Ration for 50 soldiers for 30 days is stored in a camp. After 15 days 50 more soldiers come to the camp. How many days will it last?

- (a)  $7\frac{1}{2}$  days (b) 15 days

- (c)  $22\frac{1}{2}$  days (d) 30 days

44.  $4.5 \times 3.5 + 2.5 \times 1.5 = ?$

- (a)  $17\frac{1}{2}$  (b)  $18\frac{1}{2}$

- (c)  $19\frac{1}{2}$  (d)  $20\frac{1}{2}$

45. 17.5% of 71 is

- (a) 21.25 (b) 17.50  
(c) 12.42 (d) 11.52

46. A can build a Hall in 5 days. B can build it in 8 days. How long will it take A and B to build it together?

- (a)  $2\frac{1}{3}$  days (b)  $3\frac{1}{13}$  days

- (c)  $5\frac{1}{7}$  days (d)  $6\frac{1}{3}$  days

47. A school has only three classes which contain 40, 50 and 60 students respectively. The pass percentage of these classes are 10, 20 and 10 respectively. Then the pass percentage of the school is

- (a)  $13\frac{1}{3}$  (b) 15

- (c)  $16\frac{2}{3}$  (d) 20

(e) None of these

48. A car can finish a certain journey in 10 hours at a speed of 48 km/hour. In order to cover the same distance in 8 hours, the speed of the car must be increased by

- (a) 6 km/hr (b) 7.5 km/hr  
(c) 12 km/hr (d) 15 km/hr  
(e) None of these

49. A tin of oil was  $\frac{4}{5}$  full. When six bottles of oil were taken out and four bottles of oil were poured into it, it was  $\frac{3}{4}$  full. How many bottles of oil can the tin contain?

- (a) 10 (b) 12  
(c) 30 (d) 40  
(e) None of these

50. A and B invested in a trade. They earned some profit which they divided in the ratio 2 : 3 of their investment. If A invested Rs. 40, then the amount invested by B is

- (a) Rs. 30 (b) Rs. 60  
(c) Rs. 90 (d) Rs. 100  
(e) None of these

51. The height and the radius of the base of a cone are each increased by 100%. The volume of the new cone becomes how many times the volume of the original cone?

- (a) 8 times (b) 6 times  
(c) 4 times (d) 3 times  
(e) None of these

52. A man bought two horses for Rs. 100 each. He sold one horse at a profit of 10% and the other at a loss of 10%. What was his gain or loss?

- (a) Neither gain nor loss  
(b) Loss of 5%  
(c) Loss of  $7\frac{1}{2}\%$

- (d) Gain of  $2\frac{1}{2}\%$

53. A man travels from Point A to Point B and returns to A. While going to B his speed is 40 km. per hour. On his return journey his speed

is 30 km per hour. What is his average speed ?

- (a)  $34\frac{1}{7}$  (b)  $34\frac{2}{7}$   
(c) 35 (d)  $35\frac{1}{7}$

54. A gives Rs. 5000 as loan to B on simple interest for one year @ 5%. C gives Rs. 5000 to D on compound interest for one year @ 5%. What is the difference between the interest ?

- (a) Rs. 12.50 (b) Rs. 6.25  
(c) Rs. 5.00 (d) No difference

55. The diagonal of a square is 10 metres. What is the area of the square ?

- (a) 50 sq. metres  
(b) 70.1 sq. metres approx.  
(c) 75 sq. metres  
(d) 100 sq. meters

56. Rs. 4000 will become Rs. 5000 in..... years at @ 5%

- (a) 2 (b) 4  
(c) 5 (d) 6

57. If the radius of a circle is increased by 100%, the area is increased by

- (a) 200% (b) 300%  
(c) 400% (d) 900 %  
(e) None of these

58. A man sells 2 horses at the same price. On one he makes a profit of 10% and on the other he loses 10% on the whole, he

- (a) makes no profit, no loss  
(b) makes a profit of 10%  
(c) suffers a loss of 1.1%  
(d) suffers a loss of 2%  
(e) none of these

59. In an examination, 1000 boys and 900 girls appeared. 50% of the boys and 40% of the girls passed. The percentage of failed candidates is

- (a) 45.0 (b) 2  
(c) 51.5 (d) 59.2  
(e) None of these

60. The difference in simple and compound interests on a certain sum of money in 2 years

at 15% per annum is Rs. 144. The sum (in Rs.) is

- (a) 6000 (b) 6200  
(c) 6300 (d) 6400  
(e) None of these

61. A cistern which has a leak in the bottom is filled in 15 hours. Had there been no leak, it could have been filled in 12 hours. If the cistern is full, the leak can empty it in

- (a) 3 hours (b) 12 hours  
(c) 15 hours (d) 60 hours  
(e) None of these

62. A man invests on an amount of Rs. 15,800 in the names of his three sons A, B and C in such a way that they get the same amount after 2, 3 and 4 years respectively. If the rate of simple interest is 5%, then the ratio of the amount invested among A, B and C will be

- (a) 10 : 15 : 20  
(b) 110 : 117 : 124  
(c) 1/10 : 1/15 : 1/20  
(d) 1/110 : 1/117 : 1/124  
(e) None of these

63. Assume that the distance that a car runs on one litre of petrol varies inversely with the square of the speed at which it is driven. It gives a run of 25 kilometers per litre at a speed of 30 km per hour. At what speed should it be driven to get a run of 36 km per litre ?

- (a)  $26\frac{5}{6}$  km/hr (b) 25 km/hr  
(c) 36 km/hr (d) 42.2 km/hr  
(e) None of these

64. If  $a/b = 3/4$  then the ratio of  $6a + 5b$  to  $4a + 5b$  is

- (a) 1 : 2 (b) 2 : 5  
(c) 7 : 8 (d) 11 : 16  
(e) None of these

65.  $\frac{10x^8}{5x^4} = ?$

- (a)  $5x^4$  (b)  $2x^8$   
(c)  $2x^4$  (d)  $2x^4$

66. The area of a circle inscribed in an equilateral triangle is  $154 \text{ cm}^2$ . Find the perimeter of the

Triangle

- (a)  $72.7$  cm      (b)  $72.3$  cm  
(c)  $71.7$  cm      (d)  $71.5$  cm  
(e) None of these
67. The diameter of a sphere is 8 cm. It is melted and drawn into a wire of diameter 3 mm. Find the length of a wire.  
(a) 36.9 m      (b) 37.9 cm  
(c) 38.9 cm      (d) None of these
68. A hemispherical bowl of radius  $r$  is filled with liquid the contents are to be transferred into conical vessels each having its height and base radius equal to  $r$ . The number of vessels required is  
(a) 1      (b) 2  
(c) 3      (d) 4  
(e) None of these
69. If the length of a rectangle is increased by 30% and the breadth is decreased by 15%. The percent increase in the area of the rectangle is  
(a) 4.5      (b) 7.5  
(c) 9.5      (d) 10.5  
(e) None of these
70. A right circular cylinder and a sphere are of equal volumes and their radii are also equal. If  $h$  is the height of the cylinder and  $d$  the diameter of the sphere, then which of the following relation is correct?  
(a)  $h = d$       (b)  $2h = d$   
(c)  $2h = 3d$       (d)  $3h = 2d$   
(e) None of these
71. The maximum volume of a cone that can be carved out of a solid hemisphere of radius  $r$  is equal to  
(a)  $\pi r^3$       (b)  $4/3\pi r^3$   
(c)  $2/3\pi r^3$       (d)  $1/3\pi r^3$   
(e) None of these
72.  $\cos 60^\circ + \sin 30^\circ + \cos^2 30^\circ$  is equal to  
(a)  $7/4$       (b)  $4/7$   
(c)  $6/7$       (d)  $\frac{2\sqrt{3}}{21}$
73. The value of  $(1 + \tan^2 30^\circ)$  is  
(a) 3      (b)  $1/3$

(c)  $\frac{1}{\sqrt{3}}$       (d)  $\frac{4}{3}$

74. If  $x = a \cos \theta + b \sin \theta$  and  $y = a \sin \theta - b \cos \theta$  then  $x^2 + y^2$  is equal  
(a)  $a^2 - b^2$       (b)  $b^2 - a^2$   
(c)  $a^2 + b^2$       (d)  $a^2 + 2ab$
75. If  $\sec \theta = \frac{-7}{6}$ , then  $\theta$  can lie in  
(a) first and fourth quadrant  
(b) second and third quadrant  
(c) third and fourth quadrant  
(d) first and second quadrant
76. If  $\sec \theta + \tan \theta = 1 + \sqrt{2}$  then  $\sec \theta$  is equal to  
(a) 1      (b)  $\sqrt{2}$   
(c)  $\sqrt{3}$       (d)  $2\sqrt{2}$
77. If the angle of elevation of the tower at a distance of 30 meters from the point of observer is  $60^\circ$ , then the height of the tower is  
(a) 300 meters      (b)  $300\sqrt{3}$  meters  
(c) 50 meters      (d) 150 meters  
(e)  $150\sqrt{3}$  meters
78. A flag staff is standing vertically on a horizontal plane. If a man on the ground and 20 meters away from the foot of the flag staff found the angle of elevation of the top of the flag staff to be  $30^\circ$ , then the height of the flag staff is  
(a)  $\frac{20\sqrt{3}}{3}$  m      (b)  $\frac{3\sqrt{3}}{20}$  m  
(c)  $\frac{2\sqrt{3}}{20}$  m      (d) None of these
79. The cost price of 10 articles is equal to the selling price of 7 articles. Find the gain or loss per cent.  
(a) 51% gain      (b) 35% gain  
(c)  $42\frac{6}{7}\%$  gain      (d) 32% loss
80. The ratio of speeds of two trains, one travelling at 40 km/hr and the other at 10 m/sec is  
(a) 5 : 4      (b) 2 : 3  
(c) 3 : 4      (d) 4 : 3

81. Gold is 19 times as heavy as water and copper is 9 times as heavy as water. In what ratio should these be mixed to get an alloy 16 times as heavy as water ?  
 (a) 4 : 5 (b) 5 : 4  
 (c) 3 : 7 (d) 7 : 3
82. A fraction is such that if the numerator is multiplied by 3 and the denominator be reduced by 3, we get  $\frac{18}{11}$  but if the numerator is increased by 8 and denominator is doubled, we get  $\frac{2}{5}$ . The fraction is  
 (a)  $\frac{12}{25}$  (b)  $\frac{13}{17}$   
 (c)  $\frac{11}{15}$  (d) None of these
83. If  $a = 2.7$ ,  $b = 3.1$ ,  $c = -5.8$  then the value of  $a^3 + b^3 + c^3 - 3abc$  is  
 (a) 0 (b) 123.5  
 (c) 78.9 (d) None of these
84.  $\sqrt{10} + \sqrt{1000} - \sqrt{210} = ?$   
 (a) 0 (b) 1  
 (c) 2 (d) 3
85. The LCM of 24, 30, 56, 70 is  
 (a) 840 (b) 480  
 (c) 660 (d) None of these
86. The value of  $\frac{2^{k+1} + 2^k}{2^{k+2} - 2^{k+1}}$  is  
 (a)  $\frac{1}{2}$  (b)  $2\frac{k+1}{k+1}$   
 (c)  $\frac{3}{2}$  (d) None of these
87.  $\frac{(685 + 416)^2 + (685 - 416)^2}{685 \times 685 + 416 \times 416}$  is equal to  
 (a) 2 (b) 1  
 (c) 685 (d) 1125
88.  $3^{25} + 3^{26} + 3^{27} + 3^{28}$  is divisible by  
 (a) 22 (b) 11  
 (c) 19 (d) 10
89. A lady has only 25 paise and 50 paise coins in her purse. If in all, she has 40 coins totalling Rs. 12.75, then the number of 50 paise coins

- is  
 (a) 15 (b) 17  
 (c) 11 (d) None of these
90. The present age of a father is 3 years more than three times the age of his son. Three years hence, father's age will be 10 years more than twice the age of the son. The father's present age is  
 (a) 33 years (b) 45 years  
 (c) 39 years (d) None of these
91. If  $x$  is 20% more than  $y$  then  $y$  is how much per cent less than  $x$  ?  
 (a)  $16\frac{2}{3}\%$  (b) 12%  
 (c) 20% (d) 10%
92. For what value of  $k$  the number  $37k414$  is divisible by 11  
 (a) 2 (b) 0  
 (c) 3 (d) 1
93. If the diagonals of a rhombus whose diagonals are 16 cm and 12 cm respectively, is  
 (a) 14 cm (b) 12 cm  
 (c) 10 cm (d) 8 cm
94. The smallest number needed to be added to 7415160 in order to make it a perfect square  
 (a) 1 (b) 4  
 (c) 6 (d) 9
95.  $(0.3)^2 + \sqrt{.121}$  is equal to  
 (a)  $8\frac{2}{11}$  (b)  $81\frac{9}{11}$   
 (c)  $\frac{9}{11}$  (d)  $\frac{9}{110}$
96. In a box there are one rupee, 50 paise and 25 paise coins. The total number of such coins is 340. If the ratio of their value be 5 : 4 : 1, then the number of one rupee, 50 paise and 25 paise coins in the box are respectively  
 (a) 80, 160, 100 (b) 100, 160, 80  
 (c) 160, 100, 80 (d) 100, 80, 160
97. Ram sold a cow to Rahim at 20% profit. Rahim sold it to Robert at 25% profit. If Robert paid



- Rs. 900 then Ram had purchased the cow (in Rupees)
- (a) 600 (b) 700  
(c) 750 (d) 800
97. A sum of money deposited at compound interest doubles itself in 4 years. It will amount to sixteen times at the same rate in
- (a) 12 years (b) 16 years  
(c) 24 years (d) 30 years
98. The remainder when  $2x^3 - 3x^2 + 4x - 1$  is divided by  $x - 1$  is
- (a) -10 (b) 2  
(c) -1 (d) 13
99. 1, 2, 4, 6, 8, 10, 22, 16, ... are
- (a) natural numbers  
(b) odd natural numbers  
(c) prime numbers  
(d) even natural numbers
100. Find the missing number in the given series  
1, 9, ..... 25, 36
- (a) 14 (b) 20  
(c) 16 (d) 18
101.  $\frac{1}{2} + \frac{5}{8} + \frac{3}{4} - \frac{1}{2} \times \frac{1}{2} = ?$
- (a)  $1\frac{5}{6}$  (b)  $1\frac{7}{12}$   
(c)  $8\frac{4}{5}$  (d)  $2\frac{5}{6}$
102. 40 litres of mixture of milk and water contains 10% of water. How much water must be added to make the water 20% in the new mixture?
- (a) 11 litres (b) 3 litres  
(c) 6 litres (d) 5 litres
103. 95% of students were present in a school and 18 students were absent. The number is given by:
- (a) 550 (b) 500  
(c) 400 (d) None of these
104. In an election 4000 votes were polled and one of the two candidates got 2% votes. Then by how many votes he was defeated?
- (a) 1200 (b) 1600  
(c) 800 (d) None of these
105. When 75% of a number is added to 15, then the result is the number again. The number is given by
- (a) 20 (b) 250  
(c) 200 (d) 100
106. How much tea at Rs. 4 a kilogram should be added to 15 kilogram to sell at Rs. 10 per kg so as to make the mixture worth Rs. 6.50 per kg?
- (a) 10 kg (b) 4 kg  
(c) 16 kg (d) 21 kg

### Answers

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| (d) | (a) | (c) | (a) | (b) | (d) | (b) | (a) | (e) | (c) |
| 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| (c) | (c) | (d) | (d) | (c) | (c) | (d) | (c) | (e) | (a) |
| 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  |
| (c) | (d) | (b) | (a) | (c) | (a) | (e) | (b) | (c) | (b) |
| 31  | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| (e) | (c) | (c) | (d) | (a) | (a) | (c) | (d) | (c) | (b) |
| 41  | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  |
| (c) | (c) | (c) | (c) | (c) | (b) | (a) | (c) | (d) | (b) |

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 51  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| (a) | (a) | (b) | (d) | (a) | (c) | (b) | (c) | (c) | (d) |
| 61  | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  |
| (a) | (d) | (b) | (d) | (d) | (c) | (b) | (a) | (c) | (b) |
| 71  | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| (c) | (a) | (d) | (c) | (b) | (b) | (b) | (a) | (c) | (a) |
| 81  | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  |
| (d) | (a) | (c) | (a) | (a) | (c) | (a) | (d) | (c) | (a) |
| 91  | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| (a) | (b) | (a) | (b) | (b) | (a) | (b) | (c) | (d) | (c) |
| 101 | 102 | 103 | 104 | 105 | 106 |     |     |     |     |
| (b) | (d) | (d) | (c) | (a) | (d) |     |     |     |     |

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