AGES & NUMBERS

1. The difference between the present ages of Arun and Deepak is 14 years. Seven years ago, the ratio of their ages was 5 : 7 respectively. What is Deepak's present age?

(1) 49 years (2) 42 years

(3) 63 years (4) 35 years

(5) None of these

2. The ages of Sachin and Jatin are in the ratio 8 : 11. After 10 years, the ratio of their ages will be 13 : 16. What is the difference between their ages?

(1) 16 years (2) 3 years

(3) 8 years (4) 6 years

(5) None of these

3. One year ago, the ratio of the ages of Sanika and Gouri was 3 : 4 respectively. One year hence, the ratio of their ages will be 10 : 13 respectively. What is Sanika's present age?

(1) 18 years

(2) 20 years

(3) 26 years

(4) Cannot be determined

(5) None of these

4. The present age of Mr. Sanyal is 3 times the present age of his son. Six years hence, the ratio of their ages will be 5 : 2. What is the present age of Mr. Sanyal?

(1) 50 years (2) 48 years

(3) 54 years (4) 60 years

(5) None of these

5. The ages of Samir and Tanuj are in the ratio of 8 : 15 years respectively. After 9 years, the ratio of their ages will be 11 : 18. What is the difference between their ages?

(1) 24 years (2) 20 years

(3) 33 years (4) 21 years

(5) None of these

6. The present age of A, B and C are in the ratio of 8 : 14 : 22 respectively. The present ages of B, C and D are in the ratio 21 : 33 : 44 respectively. Which of the following respectively the ratio of the present ages of A, B, C and D respectively?

(1) 12 : 21 : 33 : 44

(2) 12 : 22 : 31 : 44

(3) 12 : 21 : 36 : 44

(4) Cannot be determined

(5) None of these

7. Present ages of Seema and Naresh are in the ratio of 5 : 7. Five years hence the ratio of their ages becomes 3 : 4 respectively. What is Naresh's present age in years?

(1) 25

(2) 40

(3) 30

(4) Cannot be determined

(5) None of these

8. The average age of 11 players of a cricket team is increased by 2 months when two of them aged 18 years and 20 years are replaced by two new players. The average age of the new players is?

(1) 19 years 1 month

(2) 19 years 6 months

(3) 19 years 11 months

(4) 19 years 5 months

(5) None of these

9. The average age of 30 boys in a class is 15 years. One boy aged 20 years left the class, but two new boys came in his place whose ages differ by 5 years. If the average age of all the boys now in the class still remains 15 years, then the age of the younger newcomer is?

(1) 20 years (2) 15 years

(3) 10 years (4) 8 years

(5) None of these

10. The age of the present ages of two brothers is 1 : 2 and 5 years back, the ratio was 1 : 3. What will

be ratio of their ages after 5 years?

(1) 1 : 4 (2) 2 : 3

(3) 3 : 5 (4) 5 : 6

(5) None of these

11. Six years ago, Seema was half of that of Rupa in age. Four years hence the respective ratio of their ages would be 3 : 5. How old is Rupa at present?

(1) 32 years

(2) 16 years

(3) None of these

(4) Cannot be determined

(5) None of these

12. Father is aged three times more than his son Ramu. After 8 years, he would be 2.5 times of Ramu's age. After further 8 years, how many times would be of Ramu's age?

(1) 2 times (2) $2\frac{1}{2}$ times

(3) $2\frac{3}{4}$ times (4) 3 times

(5) None of these

13. 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?

(1) 33 years (2) 39 years

(3) 45 years (4) 40 years

(5) None of these

14. My grandfather was 8 times older than me 16 years ago. He would be 3 times my age 8 years from now. Eight years ago, what was the ratio of my age to that of my grandfather?

(1) 3 : 8 (2) 1 : 5

(3) 1 : 2 (4) 2 : 1

(5) None of these

15. In a class, the average age of 40 boys is 13.5 years and that of the girls is 13 years. The average age of the whole class is 13.4 years. Find the number of girls in the class?

(1) 20 (2) 13

(3) 11 (4) 10

(5) None of these

16. The average age of 8 men is increased by 2 years when two of them whose age are 21 and 23 years are replaced by two new men. The average age of the two new men is?

(1) 22 years (2) 24 years

(3) 28 years (4) 30 years

(5) None of these

17. In a school with 600 students, the average age of the boys is 12 years and that of girls is 11 years. If the average age of the school is 11 years and 9 months, then the numbers of girls in the school is

(1) 450 (2) 250

(3) 150 (4) 350

(5) None of these

18. 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

(1) 14 years (2) 19 years

(3) 38 years (4) 33 years

(5) None of these

19. The average age of a husband and wife was 23 years at the time of their marriage. After 5 years they have a one year old child. The average age of the family now is?

(1) 28.5 years (2) 19 years

(3) 29.9 years (4) 23 years

(5) None of these

20. Renu's mother was three times as old as Renu 5 years ago. After 5 years, she will be twice as old as Renu.Renu's present age in years is?

(1) 35 (2) 10

(3) 20 (4) 15

(5) None of these

21. The average age of a class of 20 students is 20 years. If the teacher's age is also included, then the average age increases by one year. The teacher's age is?

(1) 24 years (2) 30 years

(3) 41 years (4) 44 years

(5) None of these

22. The average of x and y is 18. If z is equal to 9, the average of x, y and z is?

(1) 3 (2) 9

(3) 12 (4) 15

(5) None of these

23. The average age of 12 players of a team is 25 years. If the captain's age is included, then the average age increases by 1 year. The age of the captain is?

(1) 25 years (2) 38 years

(3) 36 years (4) 26 years

(5) None of these

24. The average age of 24 students and the class teacher is 16 years. If the class teacher's age is excluded, then the average reduces by one year. What is the age of the class teacher?

(1) 50 years

(2) 45 years

(3) 40 years

(4) Data inadequate

(5) None of these

25. If the age of P and R are added to twice the age of Q, the total becomes 59. If the ages of Q and R added to thrice the age of P, the total becomes 68. And, if the age of P is added to thrice the age of Q and twice the age of R, the total becomes 108. What is the age of P?

(1) 15 years (2) 19 years

(3) 17 years (4) 12 years

(5) None of these

26. The product of the age of Harish and Seema is 240. If twice the age of Seema is more than Harish's age by 4 years, what is Seema's age in years?

(1) 12 (2) 20

(3) 10 (4) 14

(5) None of these

27. The average age of 34 boys in a class is 17 years. If the teacher's age is included the average age of the boys and the teacher's becomes 18. What is the teacher's age?

(1) 48 years (2) 46 years

(3) 49 years (4) 45 years

(5) None of these

28. Q is as much younger than R as he is older than T. If the sum of the ages of R and T is 50 years, then what is definitely the difference between R and Q's ages?

(1) 25 years

(2) 1 year

(3) 2 years

(4) Data inadequate

(5) None of these

29. A man's age is 150% of what it was 10 years ago, but 75% of what it will be after 10 years. What is his present age?

(1) 25 years (2) 30 years

(3) 35 years (4) 40 years

(5) None of these

30. A says to B "I am twice as old as you were when I was as old as you are". The sum of their ages is 63 years. Find the difference of their ages?

(1) 27 years (2) 12 years

(3) 9 years (4) 6 years

(5) None of these

31. Sachin is younger than Rahul by 4 years. If their ages are in the respective ratio of 7 : 9, then how old is Sachin?

(1) 27 years (2) 24.5 years

(3) 28 years (4) 30 years

(5) None of these

32. The ratio between the present ages of P and Q is 6 : 7. If Q is 4 years older than P, then what will be the ratio of the ages of P and Q after 4 years?

(1) 8 : 5 (2) 7 : 8

(3) 9 : 7 (4) 2 : 3

(5) None of these

33. The atio between the present ages of P and Q is 5 : 7 respectively. If the difference between Q's present age and P's age after 6 years is 2, what is the total P's and Q's present ages?

(1) 50 years (2) 60 years

(3) 68 years (4) 48 years

(5) None of these

34. At present, the ratio between the ages of Arun and Deepak is 4 : 3. After 6 years, Arun's age will be 26 years. What is the age of Deepak at present?

(1) 20 years (2) 15 years

(3) 25 years (4) 30 years

(5) None of these

35. Present ages of X and Y are in the ratio 5 : 6 respectively. Seven years hence this ratio will become 6 : 7 respectively. What is the X's present age in years?

(1) 35 years (2) 48 years

(3) 50 years (4) 45 years

(5) None of these

36. Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Anand's present age in years?

(1) 25 years (2) 24 years

(3) 26 years (4) 28 years

(5) None of these

37. Six years ago, the ratio of the ages of Kunal and Sagar was 6 : 5. Four years hence the ratio of their ages will be 11 : 10. What is Sagar's age at present?

(1) 16 years (2) 20 years

(3) 24 years (4) 32 years

(5) None of these

38. The total of the ages of Jayant, Prem and Saransh is 93 years. Ten years ago, the ratio of their ages was 2 : 3 : 4. What is the present age of Saransh?

(1) 38 years (2) 40 years

(3) 45 years (4) 50 years

(5) None of these

39. The ratio of the present ages of two brothers is 1:2 and 5 years back, the ratio was 1 : 3. What will be the ratio of their ages after 5 years?

(1) 3 : 5 (2) 4 : 5

(3) 5 : 7 (4) 8 : 3

(5) None of these

40. Hitesh is 40 years old and Ronnie is 60 years old. How many years ago was the ratio of their ages 3 : 5?

(1) 10 years (2) 20 years

(3) 40 years (4) 50 years

(5) None of these

41. The ratio of the father's ages to his son's age is 7 : 3. The product of their ages is 756. The ratio of their ages after 6 years will be?

(1) 3 : 2 (2) 2 : 1

(3) 4 : 3 (4) 4 : 5

(5) None of these

42. The present ages of three persons are in proportions 4 : 7 : 9. Eight years ago, the sum of their ages was 56. Find their present ages?

(1) 10, 15, 20 (2) 16, 28, 36

(3) 25, 30, 35 (4) 8, 16, 32

(5) None of these

43. The ratio of the ages of man and his wife is 4 : 3. After 4 years, this ratio will be 9 : 7. If at the time of marriage, the ratio was 5 : 3 , then how many years ago were they married?

(1) 20 years (2) 12 years

(3) 25 years (4) 30 years

(5) None of these

44. The ratio between the school ages of Neelam and Shaan is 5 : 6 respectively. If the ratio between the one-third age of Neelam and hal of shaan's age is 5 : 9, then what is the school age of Shaan?

(1) 10 years (2) 14 years

(3) 15 years (4) 12 years

(5) None of these

45. The ratio between the present ages of A and B is 5 : 3 respectively. The ratio between A's age 4 years ago and B's age 4 years hence is 1 : 1. What is the ratio between A's age 4 years hence and B's age 4 years ago?

(1) 4 : 1 (2) 3 : 1

(3) 3 : 2 (4) 2 : 3

(5) None of these

46. Ten years ago, A was half of B in age. If the ratio of their present ages is 3 : 4, what will be the total of their present ages?

(1) 40 years (2) 30 years

(3) 20 years (4) 35 years

(5) None of these

47. A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, then how old is B?

(1) 10 years (2) 20 years

(3) 30 years (4) 35 years

(5) None of these

48. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of the son is?

(1) 15 years (2) 22 years

(3) 32 years (4) 35 years

(5) None of these

49. Eighteen years ago, a father was three times as old as his son. Now the father is only twice as old his son. Then the sum of the present ages of the son and the father is?

(1) 108 years (2) 110 years

(3) 112 years (4) 115 years

(5) None of these

50. A person's present age is two-fifth of the age of his mother. After 8 years, he will be one-half of the age of his mother. How old is the mother at present?

(1) 30 years (2) 40 years

(3) 45 years (4) 54 years

(5) None of these

51. Tanya's grandfather was 8 times older to her 16 years ago. He would be 3 times of her age 8 years from now. Eight years ago, what was the ratio of Tanya's age to that of her grandfather?

(1) 11 : 53 (2) 12 : 54

(3) 11 : 56 (4) 11 : 43

(5) None of these

52. The age of father 10 years ago was thrice the age of his son. Ten years hence, father's age will be twice that of his son. The ratio of their present ages is?

(1) 7 : 3 (2) 8 : 3

(3) 5 : 3 (4) 7 : 4

(5) None of these

53. Four years ago, the father's age was three times the age of his son. The total of the ages of his father and the son after four years will be 64 years. What is the father's age at present?

(1) 32 years (2) 43 years

(3) 44 years (4) 36 years

(5) None of these

54. One year ago, Promila was four times as old her daughter Sakshi. Six years hence, Promila's age will exceed her daughter's age by 9 years. The ratio of the present ages of Promila and her daughter is

(1) 12 : 3 (2) 14 : 5

(3) 13 : 4 (4) 15 : 2

(5) None of these

55. The sum of the present ages of a father and his son is 60 years. Six years ago, father's age was five times the age of the son. After 6 years, the son's age will be?

(1) 30 years (2) 20 years

(3) 25 years (4) 20 years

(5) None of these

56. The total age of A and B is 12 years more than the total age of B and C. C is how many years younger than A?

(1) 12 years (2) 14 years

(3) 15 years (4) 12 years

(5) None of these

57. Q is as much younger than R as he is older than T. If the sum of the ages of R and T is 50 years, what is definitely the difference between R and Q's age?

(1) 50 years (2) 60 years

(3) 40 years (4) 30 years

(5) None of these

58. The age of a man is three times the sum of the ages of his two sons. Five years hence, his age will be double of the sum of the age of his sons. The father's present age is?

(1) 45 years (2) 40 years

(3) 35 years (4) 30 years

(5) None of these

59. The sum of the ages of a father and his son is 45 years. Five years ago, the product of their ages was 34. The ages of the son and father are respectively?

(1) 43, 8 (2) 39, 6

(3) 44, 9 (4) 45, 10

(5) None of these

60. Rajan got married 8 years ago. His present age is 6/5 times his age at the time of his marriage. Rajan's sister was 10 years younger to him at the time of his marriage. The age of Rajan's sister is?

(1) 40 years (2) 38 years

(3) 35 years (4) 30 years

(5) None of these

61. The sum of the age of 5 children bom at the intervals of 3 years each is 50 years. What is the age of the youngest child?

(1) 4 years (2) 5 years

(3) 6 years (4) 7 years

(5) None of these

62. Father is aged three times more than his son Ronit. After 8 years, he would be two and a half times of Ronit's age. After further 8 years, how many times would he be of Ronit's age?

(1) 2 (2) 3

(3) 4 (4) 5

(5) None of these

63. The difference between the ages of two persons is 10 years. Fifteen years ago, the elder one was twice as old as the younger one. The present age of the elder person is?

(1) 36 years (2) 45 years

(3) 35 years (4) 32 years

(5) None of these

64. 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?

(1) 12 years (2) 20 years

(3) 15 years (4) 14 years

(5) None of these

65. In 10 years, A will be twice as old as B was 10 years ago. If A is now 9 years older than B, the present age of B is?

(1) 40 years (2) 39 years

(3) 45 years (4) 46 years

(5) None of these

66. The difference between a number and its three-fifth is 50. What is the number?

(1) 10 (2) 12

(3) 13 (4) 14

(5) None of these

67. If a number is decreased by 4 and divided by 6, the result is 8. What would be the result if 2 is subtracted from the number and then it is divided by 5?

(1) 6 (2) 5

(3) 7 (4) 8

(5) None of these

68. If one-third of one fourth of a number is 15, then three-tenth of that number is

(1) 45 (2) 64

(3) 54 (4) 50

(5) None of these

69. A number is doubled and 9 is added. If the resultant is trebled, it becomes 75. What is that number?

(1) 7 (2) 8

(3) 9 (4) 5

(5) None of these

70. Three-fourth of a number is 60 more than it's one-third. The number is

(1) 122 (2) 144

(3) 111 (4) 169

(5) None of these

71. When 24 is subtracted from a number, it reduces to its four-seventh. What is the sum of the digits of that number?

(1) 12 (2) 11

(3) 13 (4) 14

(5) None of these

72. Find the number which when multiplied by 15 is increased by 196.

(1) 14 (2) 15

(3) 16 (4) 17

(5) None of these

73. If a number, when divided by 4, is reduced by 21, the number is

(1) 29 (2) 28

(3) 30 (4) 35

(5) None of these

74. A number whose fifth part is increased by 4 is equal to its fourth part diminished by 10, is

(1) 281 (2) 280

(3) 270 (4) 275

(5) None of these

75. The difference of two numbers is 20% of the larger number. If the smaller number is 12, the larger one is

(1) 15 (2) 16

(3) 17 (4) 18

(5) None of these

76. If one-seventh of a number exceeds its eleventh part by 100, then the number is

(1) 1925 (2) 1825

(3) 1625 (4) 1800

(5) None of these

77. If doubling a number and adding 20 to the result gives the same number as multiplying the number by 8 and taking away 4 from the product, the number is

(1) 5 (2) 4

(3) 6 (4) 7

(5) None of these

78. If 50 is subtracted from two-third of a number, the result is equal to sum of 40 and one-fourth of that number. What is the number?

(1) 217 (2) 216

(3) 219 (4) 220

(5) None of these

79. If the sum of a number and its square is 182, then what is the number?

(1) 15 (2) 17

(3) 18 (4) 13

(5) None of these

80. Twenty times a positive number is less than its square by 96. What is the integer?

(1) 24 (2) 25

(3) 27 (4) 28

(5) None of these

ANSWERS

1.	5	15.	5	29.	2	43.	2	57.	1	71.	2
2.	4	16.	4	30.	3	44.	5	58.	1	72.	1
3.	1	17.	3	31.	5	45.	2	59.	2	73.	2
4.	3	18.	5	32.	2	46.	4	60.	4	74.	2
5.	4	19.	2	33.	4	47.	1	61.	1	75.	1
6.	1	20.	4	34.	2	48.	2	62.	5	76.	1
7.	1	21.	3	35.	1	49.	1	63.	1	77.	2
8.	3	22.	4	36.	2	50.	2	64.	4	78.	2
9.	2	23.	2	37.	1	51.	1	65.	2	79.	4
10.	3	24.	3	38.	1	52.	1	66.	5	80.	1
11.	5	25.	4	39.	1	53.	4	67.	5		
12.	5	26.	1	40.	1	54.	3	68.	3		
13.	1	27.	5	41.	2	55.	4	69.	2		
14.	5	28.	4	42.	2	56.	1	70.	2		