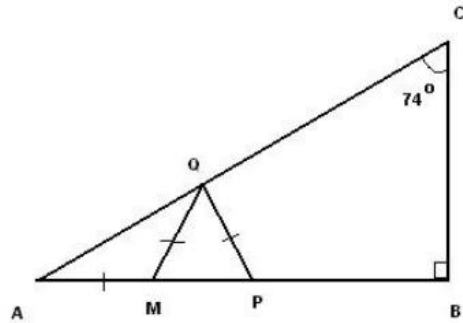


15. The mean of 100 items is 40. Later on, it was discovered an items 40 is misread as 50. What is the correct mean?
a. 39.9 b. 40 c. 41.1 d. 42
16. A father's age was 3 times and 2 times of his son at 2040BS and 2050BS respectively the birth year of son was.
a. 2030BS b. 2020 BS c. 2025 BS d. 2035 BS
17. A can do a certain job in 12 days. B is 60% more efficient than A. The number of days, it takes B to do same piece of work is?
a. 6.5 b. 8.5 c. 9 d. 7.5
18. 2 boys or 3 girls can complete a piece of work in 4 days. In how many days 1 boy and 2 girls together complete the same work?
a. 4.8 b. 4.6 c. 4.2 d. 4.4
19. The sum of any two numbers is 50 the least value of sum of their square is?
a. 625 b. 2500 c. 1250 d. 1875
20. Unit digit of the number $(17)^3 \times (12)^4 \times (16)^3 \times 19$ is ?
a. 0 b. 1 c. 5 d. 2
21. In a family, the father took $\frac{1}{4}$ of the work and he had 3 times as much as each of the other members had. The total number of the family member is?
a. 10 b. 9 c. 8 d. 6
22. A bag contains an equal number of 5 rupee, 1 rupee, 50 paisa & 25 paisa coins respectively. If the total value is 135, how many coin of each type of there?
a. 40 b. 16 c. 24 d. 20
23. Five bells first begin to all together and then at intervals of 3, 5, 7, 8 and 10 see. How many times dose they toll together in one hour?
a. 3 b. 5 c. 4 d. 1
24. The traffic lights at three different road crossing changes after 48sec, 72sec & 108sec. If they all changes simultaneously at 8:20:00 hours, at what time will they again changes simultaneously?
a. 8:30:12 hrs. b. 8:29:12 hrs. c. 8:28:12 hrs. d. 8:27:12 hrs.
25. The average mark of a group of 20 students on a test is reduced by 4 when the topper who scored 90 marks is replaced by a new student. How many marks did the new student have?
a. 20 b. 25 c. 15 d. 10

26. The average temperature of Monday to Wednesday was 37°C and of Tuesday to Thursday was 38°C . If the temperature on Tuesday was $\frac{4}{5}$ that of Monday, the temperature on Thursday was?
- a. 38°C b. 37°C c. 37.5°C d. Data inadequate
27. Two pipes can fill a tank in 30 & 40 min respectively and another pipe can empty it in 1 hour. If the tank is empty and all 3 pipes are opened at once, how long would it take to fill the tank?
- a. 36 min. b. 24 min. c. 18 min. d. 12 min.
28. The average of first 60 natural numbers is?
- a. 30 b. 30.5 c. 31 d. 31.5
29. If a hen whose size gets doubled every day which is inside a room, it takes 30 days for than hen to fill the room, how many days will it take for 2 such hen to fill the room?
- a. 29 days b. 15 days c. 30 days d. 16 days
30. If it takes 6 minutes to cut a log in 4 pieces, then how time will it take to cut similar log in 3 pieces.
- a. 6 minutes b. 5 minutes c. 4 minutes d. 3 minutes
31. If an ant climbing a pole completes climbing in 5 days. Ant climbs 4 meters in a day and slips down 3 meters in a night. What is the height of pole?
- a. 9m b. 8m c. 7m d. 5m
32. 20 people shakes their hands with each other, how many handshakes will be there?
- a. 210 b. 190 c. 380 d. 200
33. The difference between set of non-negative real numbers and the set of positive real numbers is?
- a. an infinite set b. a null set c. a singleton set d. none
34. If n is an odd integer, which of the following is an even integer?
- a. $3n$ b. $\frac{2}{n}$ c. $2n+3$ d. $n(n+3)$
35. If n is an integer, what is the least value of n such that $13n < 0.01$?
- a. 3 b. 4 c. 5 d. 6
36. The sum of the roots of the equation $x^2+x-6=0$ is?
- a. 1 b. -1 c. 2 d. 3
37. 13. A man divides Rs. 8,600 among 5 sons, 4 daughters and 2 nephews. If each daughter receives four times as much as each nephew, and each son receives five times as much as each nephew, how much does each daughter receive?
- a. Rs. 800 b. Rs. 1000 c. Rs. 300 d. Rs. 900

38. If ABC is a right triangle with the size of angle ACB equal to 74 degrees. The lengths of the sides AM, MQ and QP are all equal. Find the measure of angle QPB.



- a. 148 degrees b. 168 degrees c. 74 degrees d. 130 degrees
39. The ages of two persons differ by 16 years. If 6 years ago, the elder one was 3 times as old as the younger one, find their present ages ?
a. 14, 30 b. 10, 26 c. 24, 40 d. 1, 17
40. What is the x intercept of the line $2x + y = 7$?
a. 1 b. 2 c. $\frac{2}{7}$ d. $\frac{7}{2}$
41. The solution of the equations $2x + 5y = 9$ and $x - y = 1$ is?
a. (1, 1) b. (1, 2) c. (2, 1) d. (0, 2)
42. If a circular stadium has a circumference of 88m, what is the shortest distance (in m) needed for a man to come to the center from the circumference?
a. 7 b. 14 c. 28 d. 88
43. What is the equation of a straight line which makes the intercepts of 2 and -3 on the x and y axes respectively?
a. $3x - 2y = 6$ b. $2x - 3y = 6$ c. $x - y = 6$ d. $3x + 2y = 6$
44. Which of the following triplets of length (in cm) of lines form a triangle?
a. 1, 2, 3 b. 1, 2, 4 c. 3, 3, 5 d. 5, 5, 10
45. If the product of two integers is odd, then sum of those two integers must be?
a. odd b. even c. prime d. a perfect square
46. What is the number of terms in the sequence 2, 4, 8, 16, ..., 1024?
a. 5 b. 10 c. 19 d. 25
47. The circumference of a circular disk whose area is 100π square centimeters is?
a. 20π b. 200π c. $2\sqrt{50}\pi$ d. 40π
48. 36. An observer 1.5 m tall is 28.5 m away from a tower. The angle of elevation of the top of the tower from her eye level is 45° , what is the height (in m) of the tower?
a. 30 b. 35 c. 26 d. 34
49. If p and q both are prime numbers, which of the following cannot be the difference of p and q?
a. 1 b. 23 c. 3 d. 9
50. 47. If y is 25% less than x, then x is what percent more than y?
a. 25% b. 33.33% c. 16.5% d. 22.22%