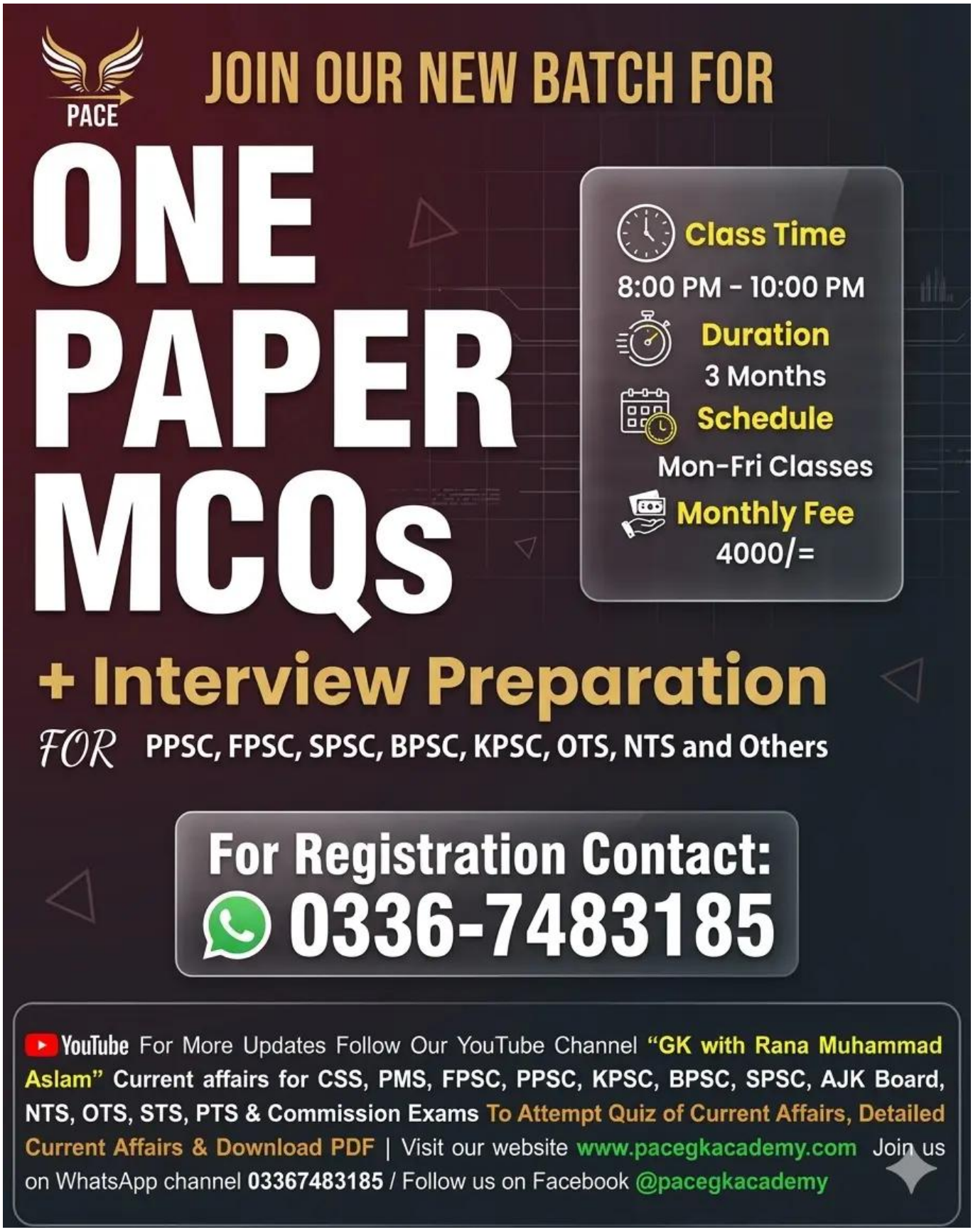
Math Model Paper 1

(Miscellaneous)



Math Model Paper 1

Q.1: Find a number such that when 15 is subtracted from 7 times the number, then result is 10 more than twice the number?
A. 3
B. **5**
C. 7
D. 11

Q.2: The sum of two numbers is 184. If one-third of the one exceed one-seventh of the other by 8, find the smaller number:
A. 60
B. 66
C. **72**
D. 77

Q.3: If the sum of two numbers is 42 and their product is 437, then find the absolute difference between the number:
A. **4**
B. 6
C. 8
D. 12

Q.4: The average of four consecutive even numbers is 27. Tind the largest of these numbers.
A. 25
B. **30**
C. 33
D. 37

Q.5: The ratio between a two-digit number and the sum of the digits of that number is 4:1. If the digit is in the unit's place is 3 more than the digit in the ten's place. What is the number?
A. 27
B. 30
C. **36**
D. 39

Q.6: A number consists of two digits. The sum of the digits is 9. If 63 is subtracted from the number . Its digits are interchanged. Find the number:
A. **81**
B. 79
C. 77
D. 67

Q.7: 50 is divided into two parts such that the sum of their reciprocals is 1/12 . Find the two parts.
A. **20 and 30**
B. 25 and 29
C. 26 and 32
D. 18 and 27

Q.8: The difference between a number and its three-fifth is 50. What is the number?
A. 100
B. **125**
C. 129
D. 131

Q.9: If a number is increased 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?
A. 7
B. **10**
C. 11
D. 17

Q.10: If one -third of one-fourth of that number is 15, then three tenth of that number is:
A. 48
B. 51
C. **54**
D. 58

Q.11: A number is doubled and 9 is added. If the result is trebled, it becomes 75. What is that number?
A. 7
B. **8**
C. 9
D. 11

Q.12: Three-fourth of a number is 60 more than its one-third. The number is:
A. 110
B. 122
C. **144**
D. 157

Q.13: When 24 is subtracted from a number, it reduces to its four-seventh. What is the sum of the digits of the number?
A. 7
B. 2
C. **11**
D. 13

Q.14: Find the number which when multiplied by 15 is increased by 196:
A. **14**
B. 20
C. 22
D. 25

Q.15: If a number when multiplied by 4 , is reduced by 21, the number is :
A. 20
B. 22
C. **28**
D. 32

Q.16: A number whose fifth part increased by 4 is equal to its fourth part diminshed by 10 is:
A. **280**
B. 270
C. 265
D. 260

Q.17: The difference of two numbers is 20% of the larger number. It the smaller number is 12, the larger one is:
A. **15**
B. 20
C. 22
D. 25

Q.18: If one seventh of a number exceeds its seventh part by 100, then the number is :
A. 1916
B. **1925**
C. 1930
D. 1935

Q.19: If the sum of one-half and one-fifth of a number exceeds one third of that number by 7 1/3 the number is:
A. 15
B. 17
C. **20**
D. 24

Q.20: If doubling a number and adding 20 to the result gives the same answer as multiplying the number by8 and taking away 4 from the product , the number is :
A. 2
B. **4**
C. 6
D. 7

Q.21: If 50 is substracted from two-third of a number , the result is equal to sum of 40 and one-fourth of that number . What is the number?
A. 200
B. 210
C. **216**
D. 225

Q.22: If the sum of a number and its square is 182, what is the number?
A. **13**
B. 15
C. 17
D. 19

Q.23: Twenty times a positive integer is less than its square by 96, What is the integer?
A. 20
B. **24**
C. 27
D. 29

Q.24: Thrice the square of a natural number decreased by 4 times. the number is equal to 50 more than the number . The number is :
A. **5**
B. 7
C. 9
D. 11

Q.25: The sum of a number and its reciprocal is one eighth of 34. What is the product of the number and its square root?
A. 2
B. 5
C. **8**
D. 27

Q.26: Two third of positive number and 25/216 of its reciprocal are equal . The number is
A. **5/12**
B. 12/7
C. 25/44
D. 44/27

Q.27: Find a positive number which when increased by 17 is equal to 60 times the reciprocal of the number.
A. 2
B. **3**
C. 10
D. 17

Q.28: A positive number when decreased by 4 is equal to 21 times the reciprocal of the number. The number is:
A. 3
B. 5
C. **7**
D. 13

Q.29: The sum of positive number and its reciprocal is thrice the difference of the number and its reciprocal. The number is:
A. **√2**
B. √3
C. √5
D. √7

Q.30: Three number are in the ratio 4:5:6 and their average is 25. The largest number is:
A. 25
B. **30**
C. 35
D. 39

Q.31: The sum of two numbers is 264. If the first number be twice the second and third number be one-third of the first , then the second number is:
A. 60
B. 65
C. **72**
D. 78

Q.32: The sum of three numbers is 22. Five times one number is equal to 6 times the other . The bigger of the two numbers is:
A. **12**
B. 15
C. 17
D. 18

Q.33: The sum of two numbers is 25 and their difference is 13.Find their product:
A. 100
B. **114**
C. 119
D. 138

Q.34: If the sum of two numbers is 33 and their difference is 15, the smaller number is:
A. 3
B. 5
C. **9**
D. 13

Q.35: The difference between two integers is 5. Their product is 500. Find the numbers.
A. 15,20
B. **20,25**
C. 30,35
D. 35,40

Q.36: Two numbers differs by 5. If their product is 336. Then the sum of two numbers is:
A. 25
B. 30
C. **37**
D. 81

Q.37: If the difference of two numbers is 3 and the difference of their squares is 39, then the larger number is :
A. **8**
B. 11
C. 13
D. 17

Q.38: The sum of three consecutive numbers 87. The greatest among three number is:
A. 20
B. **30**
C. 35
D. 40

Q.39: What is the sum of two consecutive even numbers, the difference of whose squares is 84?
A. 36
B. **42**
C. 47
D. 57

Q.40: The sum of the squares of three consecutive natural numbers is 2030. What is the middle number?
A. 20
B. **26**
C. 29
D. 32

Q.41: A two digit number exceeds the sum of the digits of that number by 18. If the digit at the unit's place is double the digit in the ten's place. what is the number?
A. **24**
B. 27
C. 32
D. 37

Q.42: The product of two fractions is 14/15 and their quotient is 35/24. The greater fraction is:
A. 4/5
B. **7/16**
C. 7/4
D. 7/3

Q.43: In a pair of fraction, fraction A is twice the fraction B and the product of two fractions is 2/25. What is the value of fraction A?
A. 1/5
B. **2/5**
C. 3/5
D. 4/7

Q.44: The sum of the numerator and denominator of a fraction is 11. If 1 is added to the numerator and 2 is subtracted from the denominator. It becomes 2/3 the fraction is:
A. 1/8
B. **3/8**
C. 4/7
D. 4/7

Q.45: The denominator of a fraction is 3 more than the numerator. If the numerator as well as the denominator is increased by 4, the fraction becomes 4/5. What was the original fraction?
A. **8/11**
B. 5/8
C. 10/13
D. 7/10

Q.46: The difference between the numerator and the denominator of a fraction is 5. If 5 is added to its denominator , the fraction is decreased by 1 1/4 . Find the value of the fraction:
A. 1/6
B. 3/4
C. **2 1/4**
D. 3 1/3

Q.47: When the numerator of a fraction increased by 4. The fraction increased by 2/3. The denominator of the fraction is:
A. **11**
B. 17
C. 6
D. 8

Q.48: The sum of three numbers is 136. If the ratio between first and second be 2:3 and that between second and third is 5:3, then the second number is:
A. 30
B. 40
C. **60**
D. 70

Q.49: If the three numbers, the sum of the first two is 45, the sum of the second and the third is 55 and the sum of the third and thrice first is 90. The third number is:
A. 15
B. **30**
C. 35
D. 45

Q.50: A train moves with a speed of 108 Km/h. Its speed in meters per second is:
A. **30**
B. 33
C. 35
D. 40

Q.51: A speed of 14 meters per second is the same as:
A. 45.5 km/h
B. **50.4 km/h**
C. 52.5 km/h
D. 55 km/h

Q.52: In what time will a train 100 meters long cross an electric pole. If speed is 144 km/h?
A. one second
B. **2.5 seconds**
C. 3 seconds
D. 4 seconds

Q.53: A train 280 meter long, running with a speed of 63 km/h will pass a tree in:
A. **16 sec**
B. 20 sec
C. 22 sec
D. 25 sec

Q.54: How long does a train 110 meters long running at the speed of 72km/h take to cross a bridge 132 meters in length?
A. 7 sec
B. 9 sec
C. **12.1 sec**
D. 14.5 sec

Q.55: A train 360 meter long is running at a speed of 45 km/h. In what time will it pass a bridge 140 meter long?
A. **40 sec**
B. 45 sec
C. 50 sec
D. 52 sec

Q.56: A train 132 meter long passes a telegraph pole in 6 seconds. Find the speed of the train?
A. 70 km/h
B. **79.2 km/h**
C. 82.5 km/h
D. 90 km/h

Q.57: A train covers a distance of 12 km in 10 minutes. If it takes 6 seconds to pass a telegraph post ,then the length of the train is:
A. 80m
B. 100m
C. **120m**
D. 140m

Q.58: A train 240 meter long passed a pole in 24 seconds. How long will it take to pass a platform 650 meter long?
A. **89 sec**
B. 92 sec
C. 94 sec
D. 100 sec

Q.59: The length of the bridge, which a train 130 meters long and traveling at 45 km/h can cross in 30 seconds is:
A. 200m
B. 230m
C. **245m**
D. 255m

Q.60: A train 800 meters long is running at a speed of 78 km/hr. If it crosses a tunnel in one minute, then the length of the tunnel is
A. 200m
B. 300m
C. **500m**
D. 700m

Q.61: A goods train runs at the speed of 72 km/hr and crosses a 250 m long platform in 26 seconds. what is the length of the goods train?
A. 200m
B. **270m**
C. 290m
D. 300m

Q.62: A train of length of 150 meters takes 40.5 seconds to cross a tunnel of length 300 meters. What is the speed of train in km/h?
A. 20
B. 30
C. **40**
D. 50

Q.63: A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/h. What is the length of the platform ?
A. 180m
B. 210m
C. **240m**
D. 270m

Q.64: A 300 meters long train crosses a platform in 39 seconds while it crosses a signal pole in 18 seconds . What is the length of the platform?
A. **350m**
B. 370m
C. 380m
D. 390m

Q.65: 4/15 of 5/7 of a number is greater than 4/9 of 2/5 of the same number by 8. What is half of that number?
A. **315**
B. 320
C. 325
D. 330

Q.66: A man divides Rs.8600 among 5 sons. 4 daughters and 2 nephews. If each daughter receives four times as much as nephew and each son receives five times as much as each nephew. how much does each daughter receive?
A. Rs.600
B. **Rs.800**
C. Rs.900
D. Rs.950

Q.67: A man spends 2/5 of his salary on house rent, 3/10 of his salary on conveyance. If he has Rs.1400 left with him. find his expenditure on food and conveyance.
A. Rs.600
B. Rs.700
C. **Rs.1000**
D. Rs.1200

Q.68: If 1/8 of a pencil is black, 1/2 of the remaining is white and the remaining 3-1/2 cm is blue. find the total length of the pencil.
A. **8 cm**
B. 12 cm
C. 14 cm
D. 16 cm

Q.69: A crate of mangoes contains and bruised mango for every 30 mangoes in the crate .If 3 out of every 4 bruised mangoes are considered unsalable, and there are 12 unsalable mangoes in the crate. Then how many mangoes are there in the crate?
A. 430
B. **480**
C. 495
D. 510

Q.70: Two pens and three pencils cost Rs.86. Four pens and a pencil cost Rs.112. Find the cost of a pen and that of a pencil?
A. Rs.8
B. Rs.10
C. **Rs.12**
D. Rs.15

Q.71: When an amount was distributed among 14 boys. each of them got Rs.80 more thean the amount received by each boy when the same amount is distributed equally among 18 boys. What was the amount.
A. **Rs.5040**
B. Rs.4080
C. Rs.5260
D. Rs.8000

Q.72: How many pieces of 85 cm length can be cut from a rod 42.5 meters long?
A. 30
B. 40
C. **50**
D. 60

Q.73: Income of a company doubles after every one year. If the initial income was Rs.4 Lakhs, what would be the income after 5 years?
A. **Rs.1.28 Crores**
B. Rs. 2.25 Crores
C. Rs.3.25 Crores
D. Rs. 3.75 Crores

Q.74: On sports day, if 30 children were made to stand in a column, then 16 columns could be formed . If 24 children were made to stand in a column, then how many columns could be formed?
A. **20**
B. 25
C. 30
D. 35

Q.75: A light was seen at arrivals of seconds. It was seen for the first time at one hour 54 minute and 50 seconds a.m and the last time at 3 hours 17 minutes and 49 seconds a.m. How many times was the light seen?`
A. 320
B. 345
C. **384**
D. 398

Q.76: Along a yard 225 meters long. 26 trees are planted at equal distances, on tree being at each end of the yard. what is the distance between two consecutive trees?
A. 3 meters
B. **9 meters**
C. 12 meters
D. 15 meters

Q.77: A boy was asked to multiply a number by 25. He instead multiplied the number by 52 and got the answer 324 more than the correct answer. The number to be multiplied was:
A. 8
B. 10
C. **12**
D. 15

Q.78: The total monthly salary of 4 men and 2 women is Rs.46000. If a woman earns Rs.5000 more than a man, what is the monthly salary of a woman?
A. Rs.5000
B. Rs.6000
C. **Rs.8000**
D. Rs.9000

Q.79: Imran got two and a half times as many marks in English as in History.If his total marks in the two subjects are 140, the marks obtained by him in English are?
A. 45
B. 55
C. 86
D. **100**

Q.80: A pineapple cost Rs.7 each. A watermelon costs Rs. 5 each. X spends Rs. 38 on those fruits. The number of pineapples purchased is:
A. **4**
B. 6
C. 9
D. 15

Q.81: The number of girls in a class is 5 times the numbers of boys. Which of the following can not be the total number of children in the class?
A. 25
B. 30
C. **35**
D. 45

Q.82: A sum of Rs.750 is distributed among A,B,C and D in such manner that A gets as much as B and C together, B gets Rs.125 more than C and D gets as much as C. What is A's share?
A. Rs.220
B. **Rs.325**
C. Rs.360
D. Rs.460

Q.83: A bonus of Rs. 1000 is to be divided among three people so that Rashid receives twice as much as Sohail, who receives one fifth as much as Ghani. How much money should Ghani receive?
A. Rs. 100
B. Rs. 125
C. Rs. 225
D. **Rs. 625**

Q.84: The total number of digits used in numbering the pages of a book having 366 pages is?
A. 732
B. **990**
C. 970
D. 1000

Q.85: A printer numbers the pages of a book starting with 1 and uses 3189 digits in all. How many pages does the book have?
A. 900
B. 990
C. **1074**
D. 1125

Q.86: What fraction of an hour is a second?
A. 1/24
B. 1/60
C. 1/12
D. **1/3600**

Q.87: When a ball bounces , it rises to 3/4 of the height from which it fell. If the ball is dropped from a height of 32 m. how high will it rise at the third bounce?
A. 13 m
B. **13.5 m**
C. 15.5 m
D. 16 m

Q.88: Sohail earns twice as much in the month of March as in each of the other months of the year. What part of his entire annual earning was earned in March?
A. **2/13**
B. 2/11
C. 1/6
D. 1/7

Q.89: If one-third of a tank holds 80 liters of water, then the quantity of water that half of the tank hold is :
A. 100 liters
B. **120 liters**
C. 130 liters
D. 140 liters

Q.90: What fractions of 4/7 must be added to itself to make the sum 1 1/4?
A. 1/2
B. 4/7
C. **7/8**
D. 15/14

Q.91: Express 2/3 of 1/4 of Rs.25.20 as a fraction of 1 1/2 of Rs.36.
A. **7/90**
B. 5/42
C. 6/39
D. 8/91

Q.92: A 70 cm long wire is to be cut into two pieces such that one piece will be 2/5 as long as the other. how many centimeters will the shorter piece be?
A. 10
B. **20**
C. 30
D. 45

Q.93: A certain amount is distributed among A,B and C. A gets 3/16 and B gets 1/4 of the whole amounts . If C gets Rs. 81, then B gets?
A. Rs. 25
B. Rs. 30
C. **Rs. 36**
D. Rs. 42

Q.94: In an examination , a student was asked to find 3/14 of a certain number. By misktake, he 3/4 of that number. His answer was 150 more than the correct answer. The number is:
A. 180
B. **280**
C. 310
D. 340

Q.95: The highest score in an innings was 3/11 of the total and the next highest was 3/11 of the reminder. If the score differed by 9, the total score was:
A. 120
B. 128
C. **132**
D. 142

Q.96: The price of ten chairs is equal to that of 4 tables. The price of 15 chairs and 2 tables together is Rs.4000. The total price of 12 chairs and 3 tables is:
A. Rs. 3000
B. Rs. 3200
C. **Rs. 3900**
D. Rs. 5000

Q.97: If 2 tables and 3 chairs cost Rs.3500 and 3 tables and 2 chairs cost Rs. 4000, then how much does a table cost?
A. **Rs. 1000**
B. Rs. 800
C. Rs. 750
D. Rs. 600

Q.98: In a group of buffaloes and ducks, the number of legs are 24 more than twice the number of heads. What is the number of buffaloes in the group?
A. **12**
B. 15
C. 17
D. 19

Q.99: A man has some hens and cows . If the number of heads be 48 and the number of feet equals 140, then the number of hens will be :
A. 18
B. **24**
C. 28
D. 32

Q.100: A number is as much greater than as is less than 86. Find the number?
A. **61**
B. 59
C. 67
D. 57

Math Model Paper 1
(Answer Key)

1. **B**	2. **C**	3. **A**	4. **B**	5. **C**	6. **A**	7. **A**	8. **B**	9. **B**	10. **C**
11. **B**	12. **C**	13. **C**	14. **A**	15. **C**	16. **A**	17. **A**	18. **B**	19. **C**	20. **B**
21. **C**	22. **A**	23. **B**	24. **A**	25. **C**	26. **A**	27. **B**	28. **C**	29. **A**	30. **B**
31. **C**	32. **A**	33. **B**	34. **C**	35. **B**	36. **C**	37. **A**	38. **B**	39. **B**	40. **B**
41. **A**	42. **B**	43. **B**	44. **B**	45. **A**	46. **C**	47. **A**	48. **C**	49. **B**	50. **A**
51. **B**	52. **B**	53. **A**	54. **C**	55. **A**	56. **B**	57. **C**	58. **A**	59. **C**	60. **C**
61. **B**	62. **C**	63. **C**	64. **A**	65. **A**	66. **B**	67. **C**	68. **A**	69. **B**	70. **C**
71. **A**	72. **C**	73. **A**	74. **A**	75. **C**	76. **B**	77. **C**	78. **C**	79. **D**	80. **A**
81. **C**	82. **B**	83. **D**	84. **B**	85. **C**	86. **D**	87. **B**	88. **A**	89. **B**	90. **C**
91. **A**	92. **B**	93. **C**	94. **B**	95. **C**	96. **C**	97. **A**	98. **A**	99. **B**	100. **A**