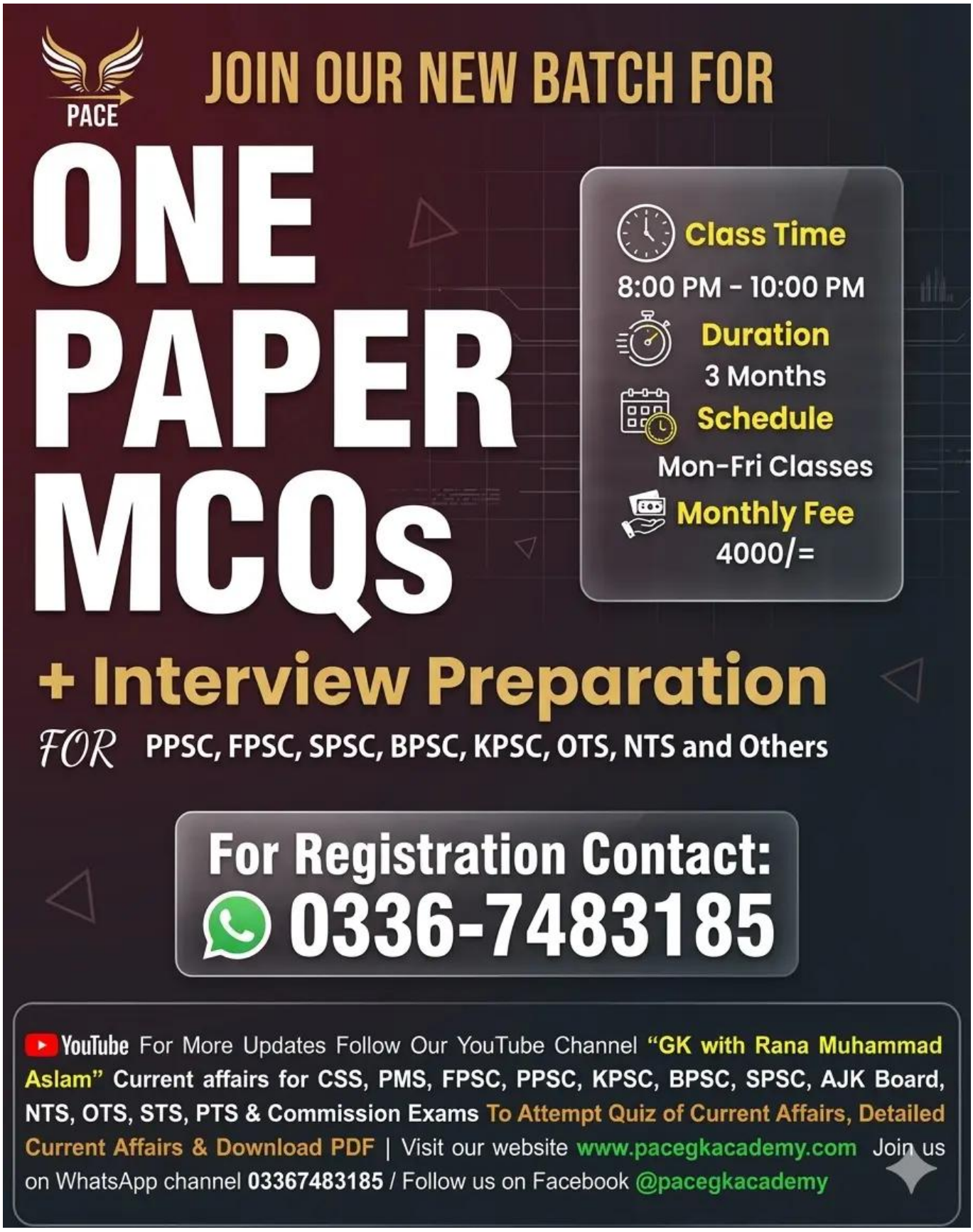
Math Model Paper 2

(Miscellaneous)



Math Model Paper 2

Q.1: If 18 binders bind 900 books in 10 days , how many binders will be required to bind 660 books in 12 days?
A. 7
B. 9
C. **11**
D. 15

Q.2: A rope makes 70 rounds of the circumstances of a cylinder whose radius of the base is 14 cm. How many times can it go round a cylinder with radius 20 cm?
A. 25
B. **49**
C. 57
D. 63

Q.3: Some persons can do a piece of work in 12 days. Two times the number of such persons will do half of that work in ?
A. **3 days**
B. 5 days
C. 7 days
D. 8 days

Q.4: In a camp, 95 men had provisions for 200 days, After 5 days, 30 men left the camp, For how many days will the remaining food last now?
A. 270
B. **285**
C. 290
D. 300

Q.5: A garrison of 500 men had provisions for 27 days, After 3 days a reinforcement of 300 men arrived. For how many more days will the remaining food last now?
A. 10
B. 12
C. **15**
D. 20

Q.6: A train takes speed past a pole in 15 seconds and a platform 100 meter long in 25 seconds its length is :
A. 80m
B. 100m
C. 120m
D. **150m**

Q.7: A train takes 18 seconds to pass completely through a station 162 meter long and 15 seconds through another station 120 meter long the length of the train is
A. 50m
B. 70m
C. **90m**
D. 100m

Q.8: How many seconds will a 500 meter long train take to cross a man walking with a speed of 3 km/hr in the direction of the moving train , if the speed of the train is 63 km/hr?
A. **30**
B. 35
C. 38
D. 40

Q.9: A jogger running at 9 km/h alongside a railway track is 240 meters ahead of the engine of a 120 meters long train running at 45 km/h in the same direction. In how much time will train pass the jogger?
A. **36 sec**
B. 40 sec
C. 43 sec
D. 50 sec

Q.10: A train 110 meters long is running with a speed of 60 Km/hr and 40 Km/h respectively in opposite directions on parallel tracks. The time in seconds which they taken to cross each other is:
A. 8 sec
B. **10.8 sec**
C. 12 sec
D. 15.5 sec

Q.11: Two trains to equal length are running on parallel lines in the same direction at 45 km/h and 36 km/h. The faster train passes the slower train in 36 seconds. The length of each train is ?
A. **50 m**
B. 60 m
C. 65 m
D. 70 m

Q.12: A 270 meters long train running at the speed of 120 km/h crosses another train running in opposite direction at the speed of 80 km/h in 9 seconds. What is the length of the other train?
A. 200 m
B. **230 m**
C. 240 m
D. 250 m

Q.13: Two trains equal lengths take 10 seconds and 15 seconds respectively to cross a telegraph post. If the length of each train be 120 meters, in what time, (seconds) will they cross each other traveling in opposite direction?
A. 8
B. 10
C. **12**
D. 15

Q.14: A train 108 meter long moving at a speed of 50 km/h crosses a train 112 meter long coming from opposite direction in 6 seconds. The speed of the second train is:
A. 70 km/h
B. 78 km/h
C. **82 km/h**
D. 85 km/h

Q.15: A train 150 meter long passes a km stone in 15 seconds and another train of the same length travelling in opposite direction in 8 seconds. The speed of the second train is:
A. **99 km/h**
B. 102 km/h
C. 105 km/h
D. 110 km/h

Q.16: Aslam's age after 15 years will be 5 times his age 5 years back. What is the present age of Aslam ?
A. **10 years**
B. 12 years
C. 15 years
D. 20 years

Q.17: The present age of father is 3 years more than the 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 . Find the present age of the father?
A. 25 years
B. **33 years**
C. 39 years
D. 42 years

Q.18: Riaz was four times as old as his son 8 years ago. After 8 years, Riaz will be twice as old as his son .What are there present ages?
A. 30 years, 32 years
B. 25 years, 27 years
C. **16 years, 40 years**
D. 28 years , 35 years

Q.19: One year ago, the ratio of Ali and Imran's ages was 6:7 respectively. Four years hence ,this ratio would become 7:8. How old is Ali?
A. **36 years**
B. 40 years
C. 39 years
D. 42 years

Q.20: Ali's age after six years will be three-seventh of his father's age. Ten years ago, the ratio of their ages was 1:5. What is Ali's father age at present?
A. **50 years**
B. 45 years
C. 42 years
D. 40 years

Q.21: Imran is younger than sohail by 4 years. If their ages are in the respective ratio of 7:9, how old is imran ?
A. 13 years
B. 18 years
C. 20 years
D. **24.5 years**

Q.22: The ratio between the present ages of P & Q is 6:7. If Q is four years old than P , what will be the ratio of the ages of P and Q after four years?
A. 3:4
B. 4:5
C. **7:8**
D. 9:11

Q.23: The ratio between the present ages 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 of P's and Q's present age?
A. 40 years
B. **48 years**
C. 52 years
D. 55 years

Q.24: At present , the ratio between ages of Ali and Danial is 4:3. After i6 years , Ali's age will be 26 years. What is the age of Danial at present?
A. 12 years
B. 13 years
C. **15 years**
D. 17 years

Q.25: 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 X's present age in years?
A. **35**
B. 40
C. 45
D. 50

Q.26: Present ages of Samar and Anwar are in the ratio of 5:4 respectively .Three years hence , the ratio of their ages will become 11:9 respectively. What is Anwar's present ages in years?
A. **24**
B. 27
C. 30
D. 33

Q.27: Six years ago , the ratio of the ages of Kamal and Sarwar was 6:5. Four years hence , the ratio of their ages will be 11:10 .What is Sarwar age at present?
A. 10 years
B. **16 years**
C. 20 years
D. 23 years

Q.28: The total of the ages of Junaid. Akram and Salman is 93 years. Ten years ago, the ratio of their ages was 2:3:4, what is the present age of Salman?
A. 25 years
B. 28 years
C. **38 years**
D. 42 years

Q.29: 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?
A. 1:4
B. 2:3
C. **3:5**
D. 5:7

Q.30: Haris is 40 years old and Roshan is 60 years old. How many years ago was the the ratio of their ages 3:5?
A. 8 years
B. **10 years**
C. 15 years
D. 20 years

Q.31: The ratio of the father's age to his son's age is 7:3. The product of their ages is 756. The ratio of their age after 6 years will be:
A. **2:1**
B. 3:4
C. 5:7
D. 7:9

Q.32: The ratio of the ages of a 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?
A. 8 years
B. **12 years**
C. 15 years
D. 17 years

Q.33: Ten years ago, A was half of B in age , If the ratio of their present age is 3:4. What will be the total of their present age?
A. **35 years**
B. 30 years
C. 28 years
D. 24 years

Q.34: A is two years older than B who is twice as old as C. If the ages of A,B and C be 27. Then how old is B?
A. 7 years
B. **10 years**
C. 13 years
D. 18 years

Q.35: A man is 24 years older than his son. In how years, his age will be twice the age of his son. The present age of the son is?
A. 12 years
B. 15 years
C. **22 years**
D. 28 years

Q.36: Eighteen years ago, a father was three times as old as his son . Now the father is only twice as old as his son. Then the sum of the present ages of the son and the father is?
A. 88
B. 98
C. 100
D. **108**

Q.37: A person's age is two-fifth of the age of his mother. After 8 years , he will be on-half of the age of his mother. How old is the mother at present ?
A. 25 years
B. 30 years
C. **40 years**
D. 50 years

Q.38: 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:
A. **7:3**
B. 5:7
C. 7:9
D. 6:8

Q.39: Four years ago , the father's age was three times the age of his son . The total of the ages of the father and the son after four years will be 64 years. What is the father's age at present ?
A. 30 years
B. 33 years
C. **36 years**
D. 40 years

Q.40: 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 his son. After 6 years, son's age will be:
A. **20 years**
B. 25 year
C. 28 years
D. 30 years

Q.41: The total age of A and B is 13 years more than the total age of B and C, C is how many years younger than A?
A. 10 years
B. **12 years**
C. 15 years
D. 18 years

Q.42: 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 ages of his son . The father's present age is:
A. 35 years
B. 40 years
C. **45 years**
D. 50 years

Q.43: The sum of the ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
A. **4 years**
B. 6 years
C. 7 years
D. 9 years

Q.44: 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:
A. 30 years
B. **35 years**
C. 40 years
D. 45 years

Q.45: 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. 10 years
B. 15 years
C. **19 years**
D. 22 years

Q.46: In ten 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:
A. 30 years
B. 33 years
C. **39 years**
D. 45 years

Q.47: If 6 years are subtracted from the present age of Gulshan and the reminder is divided by 18, then the present age of his grandson Ali is obtained. If Ali is 2 years younger to Moeen whose age is 5 years, then what is Gulshan's present age?
A. 40 years
B. **60 years**
C. 68 years
D. 70 years

Q.48: Naida's father was 38 years of age when she was born while her mother was 36 years old when her brother four years younger to her was born. What is the difference between the ages of her parents?
A. 3 years
B. **6 years**
C. 9 years
D. 10 years

Q.49: A person was asked to state his age in years. His reply was, "Take my age three years hence, multiply it by 3 and then subtract three times my age three years ago and you will know how old I am?" What was the age of the person?
A. **18 years**
B. 20 years
C. 22 years
D. 25 years

Q.50: A,B and C enter into a partnership. A invests 3 times as much as B invests and B invest two-third of what C invest. At the end of the year, the profit earned is Rs.6600 . What is the share of B?
A. **Rs.1200**
B. Rs. 1300
C. Rs. 1400
D. Rs. 1500

Q.51: Four milkman rented a pasture. A grazed 24 cows for 3 months; B 10 cows for 5 months; C 35 cows for 4 months and D 21 cows for 3 months. If A's share of rent is Rs. 720 , find the total rent of the field:
A. Rs. 2850
B. Rs. 3000
C. **Rs. 3250**
D. Rs. 3500

Q.52: Ali and Danish started a business investing Rs.22500 and Rs. 35000 respectively. Out of a total profit of Rs. 13800, Danish's share is:
A. Rs.7000
B. Rs.7800
C. **Rs. 8400**
D. Rs. 8750

Q.53: Reema and Shazia are partners in a business. Reema invests Rs. 35000 for 8 months and shazia invests Rs. 42000 for 10 months. Out of a profit of Rs. 31570, Reema's share is:
A. Rs. 11550
B. **Rs. 12628**
C. Rs. 12900
D. Rs. 15500

Q.54: Kamal started a business investing Rs.9000. After five months, Shahid joined with a capital of Rs.8000. If at the end of the year, they earn a profit of Rs. 6970, then what will be share of Shahid in the profit?
A. Rs. 1800
B. **Rs. 2380**
C. Rs. 2450
D. Rs. 2500

Q.55: A,B,C hired a car for Rs.520 and used it for 7,8 and 11 hours respectively. Hire charges paid by B are?
A. Rs. 120
B. Rs. 135
C. **Rs. 160**
D. Rs. 180

Q.56: A and B started a business in partnership investing Rs. 20000 and Rs. 15000 respectively. After six months. C joined them with Rs. 20000. What will be B's share in the total profit of Rs. 25000 earned at the end of 2 years from the starting of the business?
A. **Rs. 7500**
B. Rs. 7800
C. Rs. 8000
D. Rs. 8200

Q.57: Ali , Kamal and Waheed invested Rs. 4000 and Rs. 8000 respectively in a business . Ali left after six months. If after 8 months, there was a gain of Rs. 4005. then what will be the share of Kamal?
A. Rs. 750
B. **Rs. 890**
C. Rs. 925
D. Rs. 990

Q.58: A and B enterned a partnership investing Rs. 16000 and Rs. 12000 respectively. After three months A withdraw Rs. 5000 while B invested Rs.5000 mor. After 3 months, C joins the business with a capital Rs. 21000. The share of B exceeds that of C, out of a total profit of Rs.26400 after one year by :
A. Rs. 2800
B. Rs. 3000
C. **Rs. 3600**
D. Rs. 4000

Q.59: A,B,C subscribe Rs.50000 for a business . A subscribes Rs. 4000 more than B and B Rs 5000 more than C. Out of a total profit of Rs 35000. A receives:
A. Rs. 10000
B. **Rs. 14700**
C. Rs. 15500
D. Rs.17500

Q.60: Three partner A,B,C start a business. Twice A's capital is equal to thrice, B's capital and B's capital is four times C's capital. Out of a total profit of Rs. 16500 at the end of year, B's share is:
A. Rs. 5000
B. **Rs. 6000**
C. Rs. 7000
D. Rs. 8000

Q.61: A,B and C enter in a partnership. A invest some money at the beginning , B invests double the amount after 6 months and C invest thrice the amount after 8 months. If the annual profit be Rs. 27000, C's share is:
A. Rs.20000
B. Rs.22000
C. **Rs. 9000**
D. Rs. 7000

Q.62: In a business, A and C invested amounts in the ratio 2:1 . whereas the ratio between amounts invested by A and B was 3:2. If Rs. 157300 was their profit. how much amount did B receive?
A. **Rs. 48400**
B. Rs. 49500
C. Rs. 50000
D. Rs. 50500

Q.63: A,B and C enter into partnership and their shares are in the ratio 1/2:1/3:1/4. After 2 months. A withdraws half of his capital and after 10 months, a profit of Rs.378 is divided among them . what is B's share?
A. Rs. 100
B. Rs. 114
C. **Rs. 144**
D. Rs. 160

Q.64: A,B and C entered into a partnership in the ratio of 7/2:4/3:/6/5. After 4 months, A increases his share by 50%. If the total profit of one year be Rs. 21600, then B's share in the profit is :
A. Rs. 2000
B. **Rs. 4000**
C. Rs. 5000
D. Rs. 7000

Q.65: A and B entered into a partnership with capitals in the ratio 4:5 . After 3 months , A withdraw 1/4 of his capital and B withdraw 1/5 of his capital . The gain at the end of 10 months was Rs. 760. A's share in this profit is:
A. Rs.300
B. **Rs. 330**
C. Rs. 360
D. Rs. 400

Q.66: In a partnership, A invest 1/6 of the capital for 1/6 of the time, B invests 1/3 of the capital for 1/3 of the time and C, the rest of the capital for the whole time. Out of a profit of Rs. 4600, B's share is:
A. Rs.500
B. Rs. 600
C. **Rs.800**
D. Rs.900

Q.67: X and Y envested in a business. They earned some profit with which they divided in the ratio of 2:3 . If X invested Rs. 40000. the amount invested by Y is:
A. Rs. 30000
B. Rs. 40000
C. **Rs. 60000**
D. Rs. 70000

Q.68: A,B and C enter to a partnership with a capital in which A's contribution is Rs. 10000. If out of a total profit of Rs.1000. A gets Rs. 500 and B gets Rs. 300, then C's capital is:
A. Rs. 3000
B. Rs. 4000
C. **Rs. 5000**
D. Rs. 6000

Q.69: A,B and C started a shop by investing Rs. 27000, Rs. 72000 and Rs. 81000 respectively. At the end of the year. The profits were distributed among them . If C's share of profit be Rs. 36000, then the total profit was?
A. Rs. 50000
B. Rs. 60000
C. **Rs. 80000**
D. Rs. 90000

Q.70: A and B started a business jointly. A's investment was thrice the investment of B and the period of his investment was two times the period of investment of B. If B received Rs. 4000 as profit, then their total profit is:
A. Rs. 20000
B. Rs. 22000
C. **Rs.28000**
D. Rs. 29000

Q.71: A starts business with Rs. 3500 and after 5 months, B joins with A as his partner. After a year , the profit is divided in the ratio 2:3. What is B's contribution in the capital ?
A. Rs. 5000
B. Rs. 7000
C. Rs. 8000
D. **Rs. 9000**

Q.72: A and B started a business jointly. A invests Rs. 16000 for 8 months and B remains in the business for 4 months. Out of total profit, B claims 2/7 of the profit. How much money was contributed by B.
A. Rs. 10000
B. Rs. 10500
C. **Rs. 12800**
D. Rs. 14500

Q.73: A and B invest a business in the ratio 3:2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is:
A. **Rs. 1500**
B. Rs. 1400
C. Rs. 1350
D. Rs. 1300

Q.74: A and B are partners in a business . A contributes 1/4 of the capital for 15 months and B received 2/3 of the profit. For how long B's money was used?
A. 2 months
B. **10 months**
C. one year
D. 2 year

Q.75: If 15 toys cost Rs. 234, what do 35 toys cost?
A. **Rs. 546**
B. Rs. 555
C. Rs. 560
D. Rs. 572

Q.76: If 36 men can do a piece of work in 25 hours. in how many hours will 15 men do it?
A. 40
B. 50
C. **60**
D. 70

Q.77: If the wages of 6 men for 15 days be Rs. 2100, then find the wages of 9 men for 12 days:
A. Rs. 2400
B. **Rs. 2520**
C. Rs. 2600
D. Rs. 2750

Q.78: If 20 men can build a wall 56 meters long in 6 days, what is the length of a simillar wall can be built by 35 men in 3 days?
A. **49**
B. 52
C. 55
D. 58

Q.79: If 15 men , working 9 hours a day, can reap a field in 16 days, in how many days will 18 men reap the field, working 8 hours a day?
A. 6
B. **8**
C. 10
D. 12

Q.80: If the price of 6 toys is 264.37 what will be the approximate price of 5 toys?
A. Rs. 120
B. Rs. 200
C. **Rs. 220**
D. Rs.250

Q.81: The price of 357 mangoes is Rs. 1517.25. what will be the approximate price of 9 dozen of such mangoes?
A. Rs. 2000
B. **Rs. 2500**
C. Rs. 3000
D. Rs. 3300

Q.82: If a quarter Kg of potato costs 60 paisa, how many paisa will 200 gm cost?
A. **48**
B. 52
C. 56
D. 72

Q.83: If 11.25 m of a uniform iron rod weighs 42.75 kg. What will be the weight of 6 m of the same rod?
A. 18.5 Kg
B. **22.8 Kg**
C. 25.4 Kg
D. 27.5 Kg

Q.84: On a scale of map , 0.6 cm represents 6.6 km. If the distance between the points on the map is 80.5 cm , the actual distance between these points is:
A. **885.5 Km**
B. 775.5 Km
C. 810.5 Km
D. 1000 Km

Q.85: An industrial loom weaves 0.128 meters of cloth every second. Approximately, how many seconds will it take for the loom to weave 25 meters of cloth?
A. 100
B. **195**
C. 210
D. 225

Q.86: A flag staff 17.5 m high casts a shadow of length 40.25 m. The height of the building , which casts a shadow of length 28.75m under similar condition will be:
A. 8m
B. 10m
C. **12.5m**
D. 14.5m

Q.87: A man completes 5/8 of a job in 10 days. At this rat, how many more days will it take him to finish the job?
A. 3
B. 5
C. **6**
D. 8

Q.88: 36 men can complete a piece of work in 18 days . In how many days will 27 men complete the same work?
A. **24**
B. 20
C. 18
D. 17

Q.89: A fort had provision of food for 150 men for 45 days. After 10 days , 25 men left the fort . The number of days for which the remaining food will last, is:
A. 30
B. 35
C. 38
D. **42**

Q.90: In a camp, there is a meal for 120 men or 200 children. If 150 children have taken the meal, how many men will be created to with the remaining meal?
A. 20
B. 25
C. **30**
D. 35

Q.91: In a diary farm, 40 cows east 40 bags of husk in 40 days, in how many days one cow will eat one bag of husk?
A. 30
B. 35
C. 38
D. **40**

Q.92: 12 men working 8 hours per day complete a price of a work in 18 days. How many hours a day must 15 men work to complete the same work in 12 days?
A. **5**
B. 8
C. 10
D. 12

Q.93: 39 persons can repair a road in 12 days, working 5 hours a day. In how many days will 30 persons, working 6 hours a day, complete the work?
A. 10
B. **13**
C. 15
D. 17

Q.94: 3 pumps, working 8 hours a day, can empty a tank in 2 days, How many hours a day must 4 pumps work to empty the tank in one day?
A. 8
B. 10
C. **12**
D. 15

Q.95: If 8 men can reap 80 hectares in 24 days, then how many hectares can 36 men reap in 30 days?
A. 300
B. 350
C. **450**
D. 550

Q.96: If 5 men or 9 women can do a piece of work in 19 days, then in how many days will 3 men and 6 women do the same work?
A. 9
B. **15**
C. 17
D. 19

Q.97: If 7 spiders make 7 webs in 7 days, then one spider will make one web in how many days?
A. **7**
B. 9
C. 10
D. 12

Q.98: 49 pumps can empty a reservoir in 6.5 days, working 8 hours a day. If 96 pumps are used for 5 hours each day, then the same work will be completed in:
A. 2 days
B. **2 3/5days**
C. 3 days
D. 4 days

Q.99: If 18 pumps can raise 2170 tonnes of water in 10 days, working 7 hours a day; in how many days will 16 pumps raise 1736 tonnes of water , working 9 hours a day?
A. 3
B. 5
C. **7**
D. 11

Q.100: 20 men can complete one-third of a piece of work in 20 days. How many more man should be employed to finish the rest of the work in 25 more days?
A. **12**
B. 15
C. 18
D. 20

Math Model Paper 2
(Answer Key)

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