IBPS RRB Clerk Prelims 2019 | Memory Based Paper | For Practice

REASONING ABILITY

Directions (1-4): In each of the question, relationships between some elements are shown in the statements. These statements are followed by conclusions numbered I and II. Read the statements and give the answer.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.
- 1. Statements: $P < R \le M = L > 0 \le V > Y$ Conclusions: I. L > P II. 0 > R
- 2. Statements: $A \ge B > D = F < E \le C$ Conclusions: I. B > E II. D < C
- 3. Statements: $A = E \ge D \ge C < F \le B$ Conclusions: I. C < A II. A = C
- 4. Statements: $F \ge N = 0 > P \le K > T$ Conclusions: I. K < F II. N < K

Direction (5-9): Study the following information carefully and answer the question given below-

Seven people viz. A, B, C, D, E, F and G lives in a building on seven different floors such as ground floor is numbered 1, the floor just above is numbered 2 and so on till top floor numbered as seven but not necessarily in the same order.

There are less than three floors above A. Only one person lives between C and A. G lives immediately below D. D lives on an even number floor. B lives immediately above A. F lives above E. F does not lives on the 5th floor. F does not lives on an even number floor.

- **5.** Four of the following five belongs to a group find the one that does not belongs to that group?
 - (a) CD
- (b) EC
- (c) FB

- (d) AB
- (e) GC
- **6.** Who among the following lives on the top floor?
 - (a) E
- (b) B
- (c) F

- (d) D
- (e) None of these
- **7.** Number of persons lives above F is same as the number of persons below _?
 - (a) B
- (b) D
- (c) C

- (d) G
- (e) None of these

- **8.** How many floors are there above the floor on which G lives?
 - (a) One
- (b) Two
- (c) Three
- (d) More than Four
- (e) Four
- **9.** Who lives immediately below A?
 - (a) D
- (b) E
- (c) F

- (d) C
- (e) None of these

Directions (10-14): Study the following sequence and answer the given questions.

A @ 3 % 4 E N M \$ 8 & 6 L D S ♠ 9 8 6 Q Y Z 1 7 % R O G ♦ 2 I B 2 U &

- **10.** Which of the following element is twelfth to the left of the twentieth element from the left end of the given arrangement?
 - (a) 6
- (b) &
- (c) M

- (d) \$
- (e) None of these
- **11.** If all the symbols are dropped from the series, which element will be fourth to the right of the one which is twelfth from the right end?
 - (a) 9
- (b) C
- (c) R

- (d)7
- (e) None of these
- **12.** How many such numbers are there in the given series which are immediately preceded by a symbol and followed by a letter?
 - (a) None
- (b) One
- (c) Two

- (d) Three
- (e) Four



IBPS RRB 2020

Officer Scale-I PRELIMS

60TOTAL TESTS

arrangement? 34% N\$M 6DL 8Q6 ? (a) %OR (b) 7Z% (c) 0%R (d) R%O (e) R%7	(c) Only II follows. (d) Only I follow. (e) Neither I nor II follows 21. Statements: All bamboos are sticks
Direction (15-19): Study the following information carefully and answer the question given below-	No bamboos is a fish. Conclusions: I. Some sticks are fish. II. No sticks are fish.
Seven people viz. P, Q, R, S, T, U and V are sitting around a circular table having equal distance between them. All of them are facing inside. P sits immediate right of Q. Only one person sits between P and S (either from left or right). U sits third to the right of S. T is an immediate neighbor of U. R sits second to the left of V.	 (a) Both I and II follow (b) Either I or II follows (c) Only II follows. (d) Only I follows. (e) Neither I nor II follows 22. Statements: Only a few wells are mats.
15. If all the persons are arranged according to the alphabetical order in anticlockwise direction starting from P, then how many persons position will remain unchanged (except P)? (a) Three (b) One (c) Two (d) None (e) None of these	All pillows are mats. Conclusions: I. At least some pillows are wells. II. All wells can never be pillow. (a) Both I and II follow (b) Either I or II follows (c) Only II follows. (d) Only I follow.
16. How many persons sits between Q and U, if counted from the left of Q? (a) One (b) Two (c) Three (d) None (e) None of these	(e) Neither I nor II follows Direction (23-27): Study the following information carefully and answer the question given below-
17. Who sits second to the right of T? (a) P (b) Q (c) R (d) S (e) None of these	There are ten persons are sitting in two parallel row such that five persons are sitting in each row. A, B, C, D and E are sitting in row 1 and faces north and M, N, O, P and R are sitting in row 2 and faces south such that persons
18. Four of the following five belongs to a group find the one that does not belongs to that group?(a) VQ(b) PV(c) RT(d) SU(e) TQ	sitting in row 1 faces the persons sitting row 2. B sits immediate right of A. Neither A nor B sits at the extreme ends. Two person sits between P and N. B faces
 19. Who among the following sits second to the left of the one who sits 4th to the right of V? (a) U (b) T (c) R (d) S (e) None of these 	the one who sits on the immediate left of P. M sits on the immediate right of R. C sits at the end of the row. D sits on the left of E. D does not face R.
(d) S (e) None of these Directions (20-22): In each of the questions below are given some statements followed by two conclusions. You have to take the given statements to be true even if they	 23. Four of the following five belongs to a group find the one that does not belongs to that group? (a) 0 (b) C (c) D (d) P (e) N
seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer	24. Who among the following sits second to the left of the one who faces B? (a) R (b) N (c) O (d) M (e) None of these
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20. Statements: Only a few lamps are bottles.

lamps.

(a) Both I and II follow

(b) Either I or II follows

(c) Only II follows.

No bottle is ship.

II. All lamps can never be ships.

Conclusions I. Some ships are definitely not

13. Four of the following five are alike in a certain way

(b) R♦2

(e) Y7Z

14. What should come in place of question mark (?) in

the following series based on the above

to that group?

(a) 3E%

(d) D9S

and forms a group find the one that does not belongs

(c) M&\$

(a) One (d) Three	ns sits on the left of N? (b) Two (c) No (e) None of these	one	between sits betw	E and S as be	tween S and C. As as between B a	y as persons sits s many as persons nd F. C sits third	
26. How many person (a) One (d) No One	ns sits between D and C? (b) Two (c) Thi (e) Can't be determined		•	many person	eme end. s are sitting in th (b) 23	ne row? (c) 24	
coded as '3 5 2' a	(b) N (c) O (e) None of these coded as '1 3 9' and 'Say ' nd 'He May Do' is coded		(d) 2 35. If G s	26 sits 2nd to the from right end	(e) Can't be deteright of S, then w	ermined hat is the position (c) 8	
(a) 3 (d) 8 29. How many pairs "MINUTE" each between them in	the code of 'will'? (b) 1 (c) 9 (e) Can't be determined of letters are there in of which have as mare the word as they have shalphabetical series? (b) One (c) Twee (e) No	the word ny letters between	(a) S (b) S (c) T (d) F (e) N Direction carefully	second to the refecond to the left in the left if the the Rigion (37-39): 12 and answer the second to the second in (37-39): 12 and answer the second in (37-39): 13 and answer the second in (37-39): 14 and answer the second in (37-39): 15 and answer the second in (37-39	eft ft ght Study the follow the question give	ving information n below-	
Direction (30-33): carefully and answer There are six persons different weight. No to two persons are light lighter than C and D. D. D is not the heav	ection (30-33): Study the following information efully and answer the question given belowere are six persons i.e. A, B, C, D, E and F who all are of erent weight. No two persons have same weight. Only persons are lighter than A. B is heavier than A but there than C and D. F is heavier than E but lighter than D is not the heaviest. The weight of 2nd heaviest son is 115 kg and the weight of lightest is 56 kg.	formation a all are of eight. Only han A but ghter than I heaviest	Point C is 12m west of point A. Point B is 18m north of point A. Point E is 9m south of point D. Point F is 14m west of point E. Point D is 28m east of point B. F is 13m south of point G. 37. Four of the following five belongs to a group find the one that does not belongs to that group? (a) CB (b) AD (c) AE (d) BG (e) FB				
30. How many person (a) One (d) Four	ns are heavier than F? (b) Two (c) Th (e) None of these	ree	(a) N (d) N	Vorth-west Vorth	(e) North-east	pect to point G? (c) South-west then what is the	
	tht of E and A is 131 and t B is 213, then what is the ? (b) 173 (c) 174 (e) None of these	he sum of	dista (a) 2 (d) 1	nce between 8m	point B and poin (b) 9m (e) None of thes	t S? (c) 8m	
32. Which among the heaviest? (a) A (d) D	ne following person is (b) B (c) C (e) None of these	the 2nd	(a) P	PSRQ VYXW	(b) MONL (e) ILKJ	(c) ADCB	
I. Only two person II. Sum of weight III. Weight of E is (a) Only II	wing statement is true? ns are heavier than B. of D and E is 171 Kg. 58 Kg. (b) Both I and II (d) All are True (e) On	ly III			ANI		



Direction (34-36): Study the following information

Uncertain number of persons are sitting in a linear row facing north. B sits fifth to the left of E. Two persons sits

between B and D. D sits second position from one of the extreme end. Five persons sits between S and E. S is not

carefully and answer the question given below-

Quantitative Aptitude

- **41.** 1, 2, 5, 16, 65, 328, 1957
 - (a) 5
- (b) 328
- (c) 16

- (d)1957
- (e) 65
- **42.** 4, 11, 25, 46, 74, 129, 151
 - (a) 129
- (b) 11
- (c) 151

- (d) 4
- (e) 46
- **43.** 84, 96, 83, 95, 80, 94, 81
 - (a) 95
- (b) 81
- (c) 83

- (d) 80
- (e) 84
- **44.** 3, 5, 8, 17, 33, 58, 94
 - (a) 8
- (b) 94
- (c) 58

- (d)3
- (e)5
- **45.** A boat covers 36 km in upstream in 2 hours and 66 km in downstream in 3 hours. Find the speed of boat in still water?
 - (a) 21km/h
- (b) 19 km/h
- (c) 20.5 km/h

- (d) 20 km/h
- (e) 19.5 km/h
- **46.** Two inlet taps A and B can fill a tank in 36 minutes and 60 minutes respectively. Find the time taken by both the taps together to fill $\frac{1}{6}$ th of the tank?

- (a) 3 minutes (b) $3\frac{3}{4}$ minutes (c) $3\frac{1}{2}$ minutes (d) $3\frac{1}{3}$ minutes (e) $2\frac{1}{3}$ minutes

- **47.** If circumference of first circle is 132 cm and circumference of second circle is 110 cm then find the difference between area of both the circle?
 - (a) 423.5 cm²
- (b) 412.5 cm²
- (c) 420 cm²

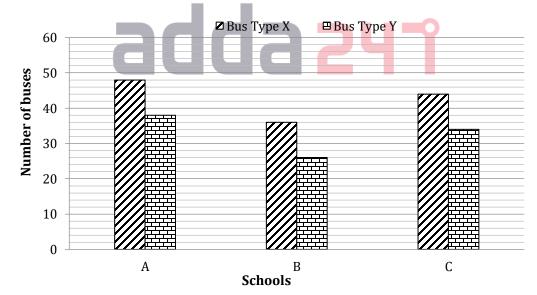
- (d) 422.4 cm²
- (e) 419.8 cm²
- 48. In 64 liter of pure milk, 20 liter of water is mixed and then $\frac{1}{4}$ th of the mixture is taken out. When x liter of water is added again then ratio of water to that of the milk becomes 1:2. Find value of x?
 - (a) 10 liter
- (b) 8 liter
- (c) 12 liter

- (d) 6 liter
- (e) 9 liter
- **49.** Total cost of x pens and (x-2) pencils is Rs 424. If one pencil and one pen costs Rs 4 and Rs 20 respectively then find x?
 - (a) 16
- (b) 18
- (c) 15

- (d) 20
- (e) 21
- **50.** A is 6 years younger than B and ratio of present age of B to C is 12:5. If ratio of present age of A to C is 2:1 then find present age of B?
 - (a) 20 years
- (b) 30 years
- (c) 24 years

- (d) 18 years
- (e) None of these

Directions (51-55): Given bar graph shows the data of two types of school buses X and Y for three schools A, B and C. Study the chart carefully and answer the following questions.



- **51.** What is the average number of X type buses from school B and school C together?
 - (a) 40
- (b) 70
- (c) 30

- (d) 59
- (e) 54

- **52.** X type buses from school A are how much more than that of X type buses from school B?
 - (a) $55^{5}/_{19}\%$
- (b) 25%
- (c) $5^{5}/_{9}\%$

- (d) $45^{5}/_{6}\%$
- (e) $33^{1}/_{3}\%$

- 53. What is the average number of all the buses from school B?
 - (a) 43
- (b) 39
- (c) 31

- (d) 54
- (e) 59
- **54.** What is the difference of average number of all buses from school A and average number of all buses from school C?
 - (a) 16
- (b) 4
- (c) 8

- (d) 24
- (e) 12
- 55. Which school has maximum number of buses?
 - (a) School B
 - (b) School C
 - (c) School A & School C
 - (d) School A & School B
 - (e) School A

Directions (56-60): Given below are two equations in each question, which you have to solve and give answer

- (a) if x > y
- (b) if $x \ge y$
- (c) if y > x
- (d) if $y \ge x$
- (e) if x = y or no relation can be established

56.
$$\mathbf{I}.2x^2 - 5x + 2 = 0$$

$$II.2v^2 - 9v + 7 = 0$$

57.
$$\mathbf{I}.3x^2 + 7x + 4 = 0$$

$$II. y^2 + 9y + 20 = 0$$

58.
$$\mathbf{L}x^2 - 7x + 10 = 0$$

$$\mathbf{I} \cdot \mathbf{v}^2 - 14\mathbf{v} + 4\mathbf{5} = 0$$

59. I.
$$x^2 - 3x = 4$$

II.
$$y^2 + 6y + 8 = 0$$

60. I.
$$x^2 - 3x = 10$$

II.
$$y^2 + 7y + 10 = 0$$

Directions (61-65): Following are the details of three shopkeepers and numbers of items sold by them on three different days

Shopkeepers	Monday	Tuesday	Wednesday
A	160	240	210
В	200	180	320
С	150	330	280

- **61.** Find the ratio of items sold by A and B on Monday to items sold by B and C on Wednesday?
 - (a) 5:3
- (b) 3:5
- (c) 3:4

- (d) 4:7
- (e) 5:8
- **62.** Find the average number of items sold by all 3 shopkeepers on Wednesday?
 - (a) 280
- (b) 290
- (c) 270

- (d) 250
- (e) 260
- **63.** Items sold by A and B together on Tuesday is what percentage of items sold by B and C on Wednesday?
 - (a) 70%
- (b) 75%
- (c) 60%

- (d) 65%
- (e) 80%

- **64.** Find the difference of number of items sold by B on Monday and Tuesday together and items sold by A on Tuesday and Wednesday?
 - (a) 80
- (b) 60
- (c) 50

- (d) 70
- (e) 100
- **65.** Find the ratio of items sold by B on all 3 days together to the items sold by C on all 3 days?
 - (a) 35:38
- (b) 38:35
- (c) 30:34

- (d) 30:38
- (e) 35:41
- **66.** Marked price of an article is Rs 250 more than cost price of that article and it is sold at a discount of 15% on marked price. Find the cost price of the article if the profit percent earned is 27.5%?
 - (a) Rs 600
- (b) Rs 550
- (c) Rs 500

- (d) Rs 750
- (e) Rs 900
- 67. In year 2016, ratio of boys to girls in a school is 36:19. And in year 2017, number of boys is increased by 1440 and number of girls is increased by 15%. If in 2017, there were total increase in the number of students is 1725 then find the increased number of boys in the school.
 - (a) 7240
- (b) 5440
- (c)6040

- (d) 4440
- (e) 5040
- **68.** If ratio of salary of A to that of B is 1:3 and each spends 15% of his salary on house rent. Find the house rent paid by A if remaining amount with A and B together is Rs 42500.
 - (a) Rs 1800
- (b) Rs 1845
- (c) Rs 1785
- (d) Rs 1760 (e) Rs 1875
- **69.** A started a business by investing Rs. 50,000. After 6 months B joined him by investing Rs. 75,000. After another 6 months C joined with Rs. 1,25,000. What is the ratio of profit shared after 2 years among A, B and \mathbb{C} ?
 - (a) 4:5:6
- (b) 8:9:10
- (c) 8:9:12

- (d) 4:5:8
- (e) None of these

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- 70. At what rate will a sum of Rs. 1000 amounts to Rs. 1102.50 in 2 years at compound interest?
 - (a) 6.5%
- (b) 6%
- (c) 5%

- (d) 5.5%
- (e) None of these

Directions (71-80): What should come in place of question mark (?) in the following questions?

- **71.** $?^2 = 40\%$ of $\frac{5}{11}$ of 352
 - (a) 12
- (b) 16
- (c) 6

- (d) 4
- (e) 8
- **72.** $?^2 = (\sqrt{1444} + \sqrt{676}) \div 4$
- (b) 16
- (c) 8

- (d) 2
- (e) 4
- **73.** $\left(\frac{?-0.5}{0.2}\right) = \frac{120}{2}$
 - (a) 30
- (b) 12.5
- (c) 25

- (d)17.5
- (e) 22.5
- **74.** 60% of $?-\sqrt{324}=222$
 - (a) 600
- (b) 250
 - (c) 200
- (d) 400
- (e) 350

- **75.** $\frac{2^3 \times 3^2}{(90 \div ?)} = \sqrt{64}$
 - (a) 15
- (b) 12
- (d) 11
- (e) 16
- **76.** $\sqrt{4 \times ?} = \frac{160}{10}$
 - (a) 64 (d) 56
- (b) 60
- (e)72
- 77. $\sqrt{5929} + \sqrt{8464} = (?)^2$
 - (a) 17 (d) 13
- (b) 21
- (e) 11
- **78.** $7\frac{1}{2} 2\frac{1}{2} = \frac{50}{?}$
- (b) 5
- (c) 15
- (d)12 **79.** $\left[\left(2 \times \frac{1}{4} \right) + 4 \right] \times 8 = ? \times 10$
 - (e) 10
- (c) 2.4

(c) 10

(c)68

(c) 15

- (d) 3.2
- (b) 3.6 (e) 4.2
- **80.** 80% of $(1.5 \times 4+?) = 24$
 - (a) 30 (d) 28
- (b) 36 (e) 42
- (c) 24

17. (b);

Solutions

REASONING ABILITY

Directions (1-4):

1. (a);

4. (d);

- Direction (5-9):

Floors	Person
7	F
6	В
5	A
4	Е
3	С
2	D
1	G

- 5. (e);
- (c);
- (d);

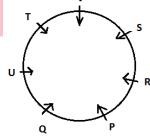
- 8. (d);
- 9. (b);

Directions (10-14):

- 10. (c);
- 11. (c);
- 12. (d);

- 13. (b);
- 14. (a)

Direction (15-19):



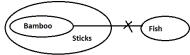
- 15. (c);
- 16. (d);
- 18. (e);
- 19. (a);

Directions (20-22):

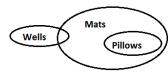
20. (c);



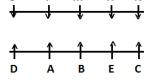
21. (b);



22. (c)



Direction (23-27):



- 23. (d);
- 24. (b);
- 25. (c);

- 26. (c);
- 27. (e);
- 28. (b);

29. (c);

Direction (30-33):

Quantitative Aptitude

- **41. (b)**; The wrong no. is 328

$$1 \times 1 + 1 = 2$$

$$2 \times 2 + 1 = 5$$

$$5 \times 3 + 1 = 16$$

$$16 \times 4 + 1 = 65$$

$$65 \times 5 + 1 = 326$$

$$326 \times 6 + 1 = 1957$$

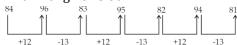
So, there should be 326 instead of 328

42. (a); The wrong no is 129



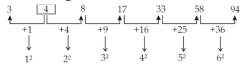
So, there should be 109 instead of 129

43. (d); The wrong no. is 80



So, there should be 82 instead of 80

44. (e); The wrong no. is 5



So, there should be 4 instead of 5.

45. (d); Upstream speed of boat=18 km/hr Downstream speed of boat=22 km/hr Speed of boat in still water= $\frac{18+22}{2}$ = 20 km/h

- 30. (d);
- 31. (b);
- 32. (d);

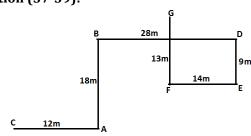
33. (b);

Direction (34-36):



- 34. (c);
- 35. (a)
- 36. (b)

Direction (37-39):



- 37. (e);
- 38. (c)
- 39. (d)

- 40 (b);
- **46. (b)**; Let the capacity of the tank be 180 units (LCM of 36 and 60) Efficiency of tap A=5 units/minute Efficiency of tap B=3 units/minute

 $\frac{1}{6}$ th of the tank= 30 units

Required time= $\frac{30}{5+3} = 3\frac{3}{4}$ minutes

47. (a); Radius of first circle = $\frac{132 \times 7}{2 \times 22}$ = 21 cm

Area of first circle= $\frac{22}{7} \times 21 \times 21 = 1386$ cm²

Radius of second circle= $\frac{110\times7}{2\times22}$ = 17.5 cm

Area of second circle= $\frac{22}{7}$ × 17.5 × 17.5 $= 962.5 \text{ cm}^2$

Required difference=423.5 cm²

48. (e); Ratio of milk to that of water in the initial mixture=16:5

 $\frac{1}{4}$ th of the mixture=21 liter

$$\frac{64-21 \times \frac{16}{21}}{20-21 \times \frac{5}{21}+x} = \frac{2}{1} \Rightarrow x = 9 \text{ liter}$$

49. (b); ATQ

$$20x + 4 \times (x - 2) = 424$$

 $24x = 432 \Rightarrow x = 18$

50. (e); Let present age of B and C be 12x years and 5x years respectively.

Then present age of A=10x years

ATQ

$$12x - 10x = 6 \Rightarrow x = 3$$

Present age of B=36 years

- **51.** (a); Average number of X type buses from school B and school C together $=\frac{36+44}{2}=40$
- **52. (e);** X type buses of school A = 48 X type buses of school B = 36 Required value = $\frac{48-36}{36}$ X $100 = 33\frac{1}{3}\%$
- **53. (c)**; Average number of all the buses from school $B = \frac{36+26}{2} = 31$
- **54. (b);** Average number of all the buses from school $A = \frac{^{48+38}}{^2} = 43$ Average number of all the buses from school $C = \frac{^{44+34}}{^2} = 39$

Required difference = 43 - 39 = 4

- **55. (e)**; Total buses from school A = 48 + 38 = 86

 Total buses from school B = 36 + 26 = 62

 Total buses from school C = 44 + 34 = 78

 Clearly, School A has maximum number of buses.
- **56. (e)**; I. $2x^2 - 4x - x + 2 = 0$ $\Rightarrow 2x(x-2) - 1(x-2) = 0$ $\Rightarrow (2x-1)(x-2) = 0$ $\Rightarrow x = \frac{1}{2}, 2$ \therefore No relation

 II. $2y^2 - 9y + 7 = 0$ $\Rightarrow 2y^2 - 7y - 2y + 7 = 0$ $\Rightarrow y(2y-7) - 1(2y-7) = 0$ $\Rightarrow y = \frac{7}{2}, 1$
- 57. (a); I. $3x^2 + 3x + 4x + 4 = 0$ $\Rightarrow 3x(x+1) + 4(x+1) = 0$ $\Rightarrow x = -1, -4/3$ II. $y^2 + 5y + 4y + 20 = 0$ $\Rightarrow y(y+5) + 4(y+5) = 0$ $\Rightarrow y = -4, -5$
- 58. (d); I. $x^2 - 5x - 2x + 10 = 0$ $\Rightarrow x(x - 5) - 2(x - 5) = 0$ $\Rightarrow x = 2, 5$ II. $y^2 - 9y - 5y + 45 = 0$ $\Rightarrow y(y - 9) - 5(y - 9) = 0$ $\Rightarrow y = 9, 5$
- 59. (a); I. $x^2 3x 4 = 0$ $x^2 - 4x + x - 4 = 0$ (x - 4)(x + 1) = 0 x = 4, -1
 - II. $y^2 + 6y + 8 = 0$ $y^2 + 2y + 4y + 8 = 0$ (y + 2)(y + 4) = 0 y = -2, -4 $\Rightarrow x > y$

(y + 5) (y + 2) = 0

 $y = -2, -5 \Rightarrow x \ge y$

60. **(b)**; I. $x^2 - 3x = 10$ $x^2 - 3x - 10 = 0$ $x^2 - 5x + 2x - 10 = 0$ (x - 5)(x + 2) = 0 x = -2, 5II. $y^2 + 7y + 10 = 0$ $y^2 + 5y + 2y + 10 = 0$

- 61. **(b)**; Items sold by A and B on Monday = 200 + 160 = 360 Item sold by B and C on Wednesday = 320 + 280 = 600 ∴ Required ratio = $\frac{360}{600} = \frac{6}{10} = \frac{3}{5}$
- **62. (c)**; Average of items sold by A, B, C on Wednesday $= \frac{210+320+280}{3} = \frac{810}{3} = 270$
- 63. (a); items sold by A and B on Tuesday = 240 + 180= 420Items sold by B and C on Wednesday = 320 + 280 = 600 \therefore Required percentage = $\frac{420 \times 100}{600} = 70\%$
- 64. (d); items sold by B on Monday and Tuesday
 = 200 + 180 = 380
 Items sold by A on Tuesday and Wednesday
 = 240 + 210 = 450
 ∴ Required difference = 450 380 = 70
- 65 (a); Item sold by B on all 3 days = 200 +180 + 320 = 700 Items sold by C on all 3 days = 150 + 330 + 280 = 760 Required ratio = $\frac{700}{760} = \frac{35}{38}$
- 66. (c); Let the marked price be Rs 100x Then selling price= Rs 85x Cost price= $Rs \frac{200}{3} x$ ATQ $100x - \frac{200}{3} x = 250$
 - x = 7.5Cost price=Rs 500
- 67. (e); Let the number of students in the exam be 55xThen number of boys= 36xNumber of girls=19xATQ $55x + 1725 = (36x + 1440) + 19x \times 1.15$ x = 100Increased number of boys=3600 + 1440 = 5040
- **68. (e)**; Let the salary of A and B be Rs 100x and Rs 300x respectively ATQ $85x + 255x = 42500 \Rightarrow x = 125$ House rent paid by A=Rs 1875

70. (c); ATQ,
$$\frac{1102.50}{1000} = \left(1 + \frac{r}{100}\right)^2$$

or, $\left(1 + \frac{r}{100}\right)^2 = \left(\frac{105}{100}\right)^2$
or, $\left(1 + \frac{r}{100}\right)^2 = \left(1 + \frac{5}{100}\right)^2$
Thus, on comparing, $r = 5\%$

71. (e);
$$?^2 = 40\%$$
 of $\frac{5}{11} \times 352$
 $?^2 = \frac{2}{5} \times \frac{5}{11} \times 352 = 64 \Rightarrow ? = 8$

72. (e);
$$?^2 = \frac{(\sqrt{1444} + \sqrt{676})}{4} = \frac{38 + 26}{4} = \frac{64}{4} = 16 \Rightarrow ? = 4$$

73. **(b)**;
$$(?-0.5) = 60 \times 0.2$$

 $? = 12 + 0.5 = 12.5$

74. (d);
$$\frac{60}{100} \times ? -18 = 222$$

 $\frac{60}{100} \times ? = 240$
 $? = \frac{240 \times 100}{60} \Rightarrow ? = 400$

75. (c);
$$\frac{8 \times 9 \times ?}{90} = 8$$

 $? = \frac{90 \times 8}{8 \times 9} = 10 \Rightarrow ? = 10$

76. (a);
$$\sqrt{4 \times ?} = 16$$

 $4 \times ? = 256 \Rightarrow ? = 64$

77. **(d)**;
$$77 + 92 = ?^2$$

 $169 = ?^2 \Rightarrow ? = 13$

78. (e);
$$5 = \frac{50}{?} \Rightarrow ? = 10$$

79. (b);
$$\frac{9}{2} \times 8 = ? \times 10 \Rightarrow ? = 3.6$$

80. (c);
$$\frac{80}{100} \times (6+?) = 24$$

6+?= 30 \Rightarrow ?= 24

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