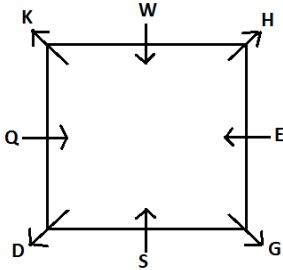


IBPS RRB Clerk Prelims 2020 (Solutions)

REASONING ABILITY

Directions (1-5):



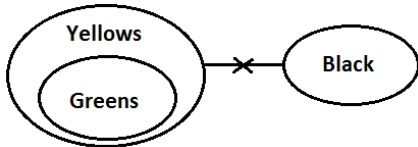
1. (b): 2. (d): 3. (c):
 4. (b): 5. (a): 6. (c):
 7. (d): 8. (a): 9. (b):

Directions (10-12):
 $C > E > A (86) > B > D$

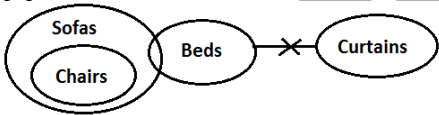
10. (d):
 11. (a):
 12. (c):

Directions (13-16):

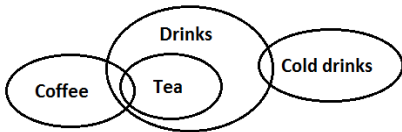
13. (a):



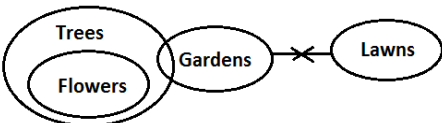
S14. (e):



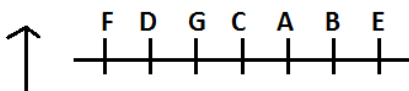
15. (d):



16. (b):



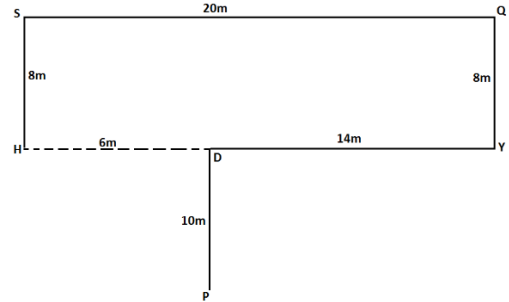
Directions (17-21):



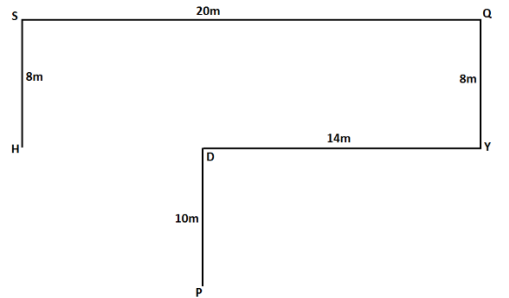
17. (b): 18. (c): 19. (d):
 20. (b): 21. (c):

Directions (22-23):

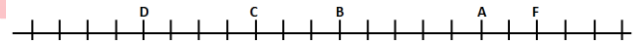
22. (b):



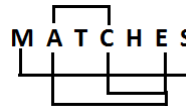
23. (c):



Directions (24-27):



24. (b): 25. (c): 26. (d):
 27. (b):
 28. (c):



Directions (29-33):

29. (c): 30. (b): 31. (a):
 32. (d): 33. (c):
 34. (c): 3 5 9 8 2 4 7 6
 1 3 7 9 3 5 5 7

Directions (35-39):

Months	7 th	12 th
January	A	F
February	C	B
March	E	D

35. (c): 36. (b): 37. (b):
 38. (c): 39. (b): 40. (a):

Quantitative Aptitude

41. (b): Required percentage = $\frac{36-33}{36} \times 100$
 $= \frac{3}{36} \times 100 = 8\frac{1}{3}\%$

42. (a): Required average = $\frac{36+27+33}{3} = 32$

43. (e): Required ratio = $18 : 22 = 9 : 11$

44. (b): Total passenger in C and E = $27 + 33 = 60$
 Required percentage = $\frac{60-36}{36} \times 100$
 $= \frac{24}{36} \times 100 = 66\frac{2}{3}\%$

45. (c): Required number of passengers = $18 + 27 + 22 = 67$

46. (b): Pattern of series –
 $12 \times 1 = 12$
 $12 \times 2 = 24$
 $24 \times 3 = 72$
 $? = 72 \times 4 = 288$
 $288 \times 5 = 1440$

47. (e): Pattern of series –
 $16 + 1.8 = 17.8$
 $17.8 + 3.6 = 21.4$
 $21.4 + 7.2 = 28.6$
 $28.6 + 14.4 = 43$
 $? = 43 + 28.8 = 71.8$

48. (b): Pattern of series –
 $12 \times 0.5 + 1 = 7$
 $7 \times 1 + 1 = 8$
 $8 \times 1.5 + 1 = 13$
 $? = 13 \times 2 + 1 = 27$
 $27 \times 2.5 + 1 = 68.5$

49. (d): Pattern of series –
 $72 + 7 = 79$
 $79 - 14 = 65$
 $65 + 28 = 93$
 $? = 93 - 56 = 37$
 $37 + 112 = 149$

50. (b): Pattern of series –
 $8 \times 1 + 1 = 9$
 $9 \times 2 + 1 = 19$
 $19 \times 3 + 1 = 58$
 $58 \times 4 + 1 = 233$
 $233 \times 5 + 1 = 1166$

51. (a): Let present age of Q = t years
 So, present age of P = $(t + 3)$ years
 ATQ –
 $\frac{t+2}{(t+3)+2} = \frac{4}{5}$
 $t = 10$ years

So, Age of P after two years = $(10 + 3) + 2 = 15$ year

52. (c): Let total income of B = $100x$ Rs.
 So, total income of A
 $= 100x \times \left(1 + \frac{20}{100}\right) = 120x$ Rs.
 ATQ –
 $(100x + 120x) \times \frac{30}{100} = 26400$
 $66x = 26400$
 $x = 400$ Rs.
 So, income of B = $400 \times 100 = 40000$ Rs.

53. (e): Let sum invested by man = Rs. X
 And, rate of interest = $r\%$
 ATQ – $\frac{X \times r \times T}{X \times r \times (T+4)} = \frac{1}{2}$
 $\frac{T}{(T+4)} = \frac{1}{2} \Rightarrow T = 4$

54. (d): Let total work = $12 \times 64 = 768$ units
 Required women = $768 \times \frac{2}{3} \times \frac{1}{16} = 32$

55. (e): Let length of train be ' l ' meters
 ATQ –
 $72 \times \frac{5}{18} = \frac{l}{30}$
 $l = 600$ meters
 Required time = $\frac{600}{54 \times \frac{5}{18}} = 40$ sec

56. (a): ATQ –
 $14 \times 6 - 10 \times T = 44$
 $10T = 40$
 $T = 4$

57. (c): Let cost price of article = $100x$ Rs.
 So, marked price of article = $100x \times \left(1 + \frac{50}{100}\right) = 150x$ Rs.
 And, selling price of article = $(150x - 50)$ Rs.
 ATQ –
 $(150x - 50) - 100x = 50$
 $50x = 100$
 $x = 2$ Rs.
 So, selling price of article = $(150 \times 2 - 50) = 250$ Rs.

58. (e): ATQ –
 $\frac{x}{(x+800)} = \frac{3200}{(6800-3200)}$
 $x = 6400$

59. (b): Let total initial mixture in vessel = $4x$
 So, milk in vessel = $3x$
 And water in vessel = x
 ATQ –
 $\left(3x - 20 \times \frac{3x}{4x}\right) - \left(x - 20 \times \frac{x}{4x}\right) = 70$

$$(3x - 15) - (x - 5) = 70$$

$$2x = 80$$

$$x = 40$$

So, initial mixture in vessel = $4x = 4 \times 40 = 160$ liters

60. (c): Let radius of circle be 'r' cm

ATQ -

$$\frac{22}{7} \times r \times r = 616$$

$$r = 14 \text{ cm} = \text{breadth of rectangle}$$

Let length of rectangle be 'l' cm

Perimeter of rectangle = circumference of a circle + 2

$$2(14 + l) = 2 \times \frac{22}{7} \times 14 + 2$$

$$2(14 + l) = 90$$

$$l = 31 \text{ cm}$$

61. (d): Required difference = $(80 + 100) - (70 + 90) = 20$

62. (a): Total orders (all three items) received by R = $(80 + 100 + 30) = 210$

Total orders (all three items) received by Q = $(40 + 70 + 90) = 200$

$$\text{Required percentage} = \frac{210-200}{200} \times 100 = 5\%$$

63. (e): Total orders of item A & B received by P = $80 + 60 = 140$

Total orders of item B & C received by Q = $70 + 90 = 160$

$$\text{Required ratio} = 140 : 160 = 7 : 8$$

64. (b): Average number of orders of item B received by

$$Q \& R = \frac{70+100}{2} = 85$$

$$\text{Required percentage} = \frac{85}{80} \times 100 = 106\frac{1}{4}\%$$

65. (c): Required sum = $80 + 60 + 50 = 190$

$$66. (e): \frac{48}{100} \times 625 \times \frac{4}{3} = ? \Rightarrow ? = 400$$

$$67. (c): \frac{64+324}{97} = ? \\ ? = 4$$

$$68. (b): 4^? \times 2 = \frac{256}{2} \\ 4^? = 64 \\ 4^? = (4)^3 \\ ? = 3$$

69. (c): $4 \times ? = 512 - 480$

$$? = \frac{32}{4}$$

$$? = 8$$

70. (e): $? + 432 - 206 = 550$

$$? = 550 - 226$$

$$? = 324$$

71. (a): $(?)^2 = 196 - 96$

$$?^2 = 100 \Rightarrow ? = 10$$

$$72. (d): \frac{40}{100} \times 400 + \frac{300}{100} \times ? = 250 \\ 160 + 3 \times ? = 250 \\ ? = \frac{90}{3} = 30$$

73. (b): $\div 7 = ? - 180$

$$? = 183$$

74. (e): $24 - 12 + 27 = 36 + ?$

$$? = 3$$

75. (b): $119 + 41 + 9 = ?^2$

$$? = 13$$

76. (b): $\frac{12}{100} \times (? + 100) = 18$

$$? = 150 - 100$$

$$? = 50$$

77. (c): $\frac{11}{11} + 9 + ? = 27$

$$1 + 9 + ? = 27$$

$$? = 17$$

78. (b): $?^2 + 20 = 36$

$$?^2 = 16 \Rightarrow ? = 4$$

79. (d): $? = 9\frac{1}{3} + 7\frac{1}{2} - 5\frac{1}{6} - 6\frac{1}{3}$

$$? = 9 + 7 - 5 - 6 \left(\frac{1}{3} + \frac{1}{2} - \frac{1}{6} - \frac{1}{3} \right)$$

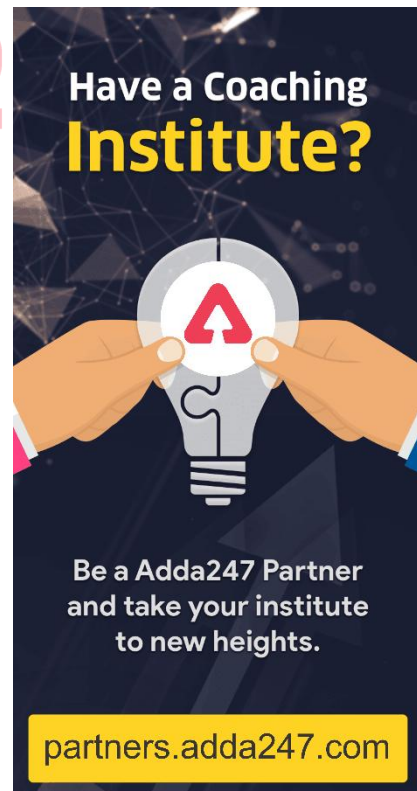
$$? = 5\frac{1}{6}$$

80. (c): $\frac{3^4 \times 3^{7 \times 2}}{3^{6 \times 3}} = 3^?$

$$3^? = 3^{4+14-18}$$

$$3^? = 3^0$$

$$? = 0$$



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