Answers

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

Hints and Solutions

1. In all others, both designs are same.

2. In all others, the eyes are round.

3. In all others, the lines are joined from any where.

4. All others are closed shape.

5. In all others, the inner design is in the shape of X.

6. All other figures are opened upward.

7. In all others, the arrows are in same direction.

8. All other figures have a circular side.

9. In all others, the curved circle is inside.

10. In all others, the small lines and circle is in same direction.

31. In the following figure, the half of the total number of dots come down.

32. The design is moving 90° in clockwise direction and after arc moves 90° in clockwise direction.

33. The angle is increasing 45° by its value subsequently.

34. The design is moving 135° in clockwise direction.

35. In the figure the design (—•) is moving 90° in anti-clockwise direction and the design (→) is moving 60° in clockwise direction.

36. The design is moving 90° in clockwise direction and right corner's side is half eliminated.

37. The design is moving 45° in clockwise direction and the circle is rotating in clockwise direction.

38. The shadded part is moving one part in anti-clockwise direction and '5' sign is moving one part in clockwise direction.

39. The black part is moving two part ahead in clockwise direction.

40. The design is moving 90° in clockwise direction and black shaded part back one part.

41. The Inner design comes outside and outside design moves in the left corner of the design.

42. The problem figure 1 is same as problem figure 3. Thus, the answer figure will be same as problem figure 2.

43. The design is inverted and joining.

44. In the following figure, one line is adding.

45. In the following figure, one line is subtracting.

46. The problem figure 3 is same problem figure 1. Thus, the answer figure will be same as problem figure 2.

47. In the problem figures 1 and 3. The design is moving 90° in clockwise direction.

48. The outer design comes inside.

49. The design is moving 180° in clockwise direction.

50. The problem figure 3 is same as problem figure 1. Thus, the answer figure will be same as problem figure 2.

61. Total number of 4 digits are

$= 9999 - 999 = 9000$

62. 37500

63. 171717

64. ∵ Difference = 10170 – 8369 = 1801

65. 7510

66. 33719

67. ∵ $316 = 1 \times 316$

$= 2 \times 158$

$= 4 \times 79$

∴ Factors of 316 are 1, 2, 4, 79, 158, 316.

Hence, 8 is not factor of 316.

68. ∵ Product of two numbers $= \frac{5}{4}$

One number $= \frac{5}{6}$

Other number $= \frac{5}{4} \div \frac{5}{6} = \frac{5}{4} \times \frac{6}{5} = \frac{3}{2}$

69. In the given series all numbers are prime. Therefore, the next prime number is 13.

70. ∵ $1.25 = \frac{125}{100} = \frac{5}{4} = 1\frac{1}{4}$

71.

2	12, 24, 30
2	6, 12, 15
3	3, 6, 15
	1, 2, 5

∴ LCM $= 2 \times 2 \times 3 \times 2 \times 5 = 120$

72. ∵ $178 \times 34 = 6052$

$\Rightarrow \quad 34 = \frac{6052}{178}$

$\Rightarrow \quad \frac{34}{10} = \frac{6052}{178 \times 10}$

$\Rightarrow \quad 3.4 = 60.52 \div 17.8$

73. $0.075 = 0.075 \times 100 = 7.5\%$ (To express number into per cent it is multiplied by 100)

74. $15 \times 4 - 10 \div 5 = 15 \times 4 - 2$

$= 60 - 2 = 58$

75. Let the capacity of drum be x L.

According to the question,

$x - \frac{2}{3}x = 50$

$\Rightarrow \quad \frac{1}{3}x = 50$

$\Rightarrow \quad x = 3 \times 50 = 150$ L

76. ∵ The CP of 2 dozen brushes

$= 2 \times 10 = ₹ 20$

SP of 1 brush = ₹ 1

SP of 2 dozen or 24 brushes $= 1 \times 24 = ₹ 24$

∴ Profit $= 24 - 20 = ₹ 4$

77. Maximum price of the oranges will be the HCF of 300 paise, 525 paise and 675 paise.

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300) 675 (2          75) 525 (7
     600                 525
     ---                 ---
      75) 300 (4          ×
          300
          ---
           ×
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HCF = 75

∴ Maximum price = 75 paise

78. Departure of bus from Delhi = 10 : 15 am

Time taken in the journey = 6 h 30 min

∴ Arrival of bus at Dehradun

$= 10 : 15 + 6 : 30$

$= 16 : 45 = 4 : 45$ pm

79. ∵ $\text{Time} = \frac{\text{Distance}}{\text{Speed}}$

∴ $\text{Time} = \frac{350}{75} = \frac{14}{3} = 4\frac{2}{3}$ h

$= 4$ h 40 min

80. From the graph, Tarun was 90 cm tall at the age of 5.