

Clarifications:

Q.No. 37 – The question was found inconsistent and deleted.

Q.No. 46 – The given answer is correct.

Question: An ant is climbing on a pole. It climbs 12 feet at the beginning of each hour and rests for a while when it slips back 4 feet before it again starts climbing in the beginning of next hour. If it begins its ascent at 3.00 p.m. at what time will it first touch a flag at 60 feet from the ground?

Clarification: The ant climbs 12 feet at the beginning of each hour and slips back 4 feet i.e. it climbs 8 feet in one hour. So, it climbs 48 feet in 6 hours i.e., at 9.00 p.m. then in the last hour, it ascends a height of 12 feet to touch the flag at 60 feet. Hence altogether it takes 7 hours to touch the peak i.e. at 10.00 p.m.

Q.No. 48 – The given answer is correct.

Question: In a certain code, GOODNESS is coded as HNPCODTR. How is GREATNESS coded in that code?

Clarification: In the code, the letters at odd places are one alphabet ahead and those at even places are one alphabet before the corresponding letter in the word as given below.

GOODNESS	GREATNESS
HNPCODTR	HQFZUMFRT

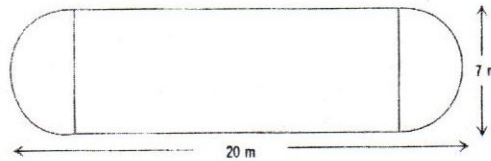
Q.No. 53 – The given answer is correct.

Question: If – indicates ÷, + indicates ×, ÷ indicates –, × indicates +, then which of the following equations is correct?

Clarification: Using the proper notations in (a), we get the statement as
 $52 - 4 \times 5 + 8 \div 2 = 52 - 4 \times 5 + 4 = 52 - 20 + 4 = 36$

Q.No. 57 – The given answer is correct. Solution given below:

Question: The shape of the garden is rectangular in the middle and semicircular at the ends as shown in the diagram. Find the area and the perimeter of this garden.



Solution. Radius of semicircular ends = $\frac{1}{2} \times \text{diameter}$
 $= \left(\frac{1}{2} \times 7\right) \text{ m} = 3.5 \text{ m}$

Length of rectangle = $(20 - (3.5 + 3.5)) \text{ m} = 13 \text{ m}$

Breadth of rectangle = 7 m

Area of garden = area of rectangle + area of two semicircles

$$\begin{aligned} &= l \times b + 2 \times \frac{\pi r^2}{2} \\ &= (13 \times 7) \text{ m}^2 + \frac{22}{7} \times (3.5)^2 \text{ m}^2 \\ &= 91 \text{ m}^2 + 38.5 \text{ m}^2 \\ &= 129.5 \text{ m}^2 \end{aligned}$$

Perimeter of the garden consists of two line segments, each of length 13 m and two semicircles of radius 3.5 m.

$$\begin{aligned} \therefore \text{Perimeter of garden} &= (2 \times 13) \text{ m} + 2 \times \left(\frac{1}{2} \times 2\pi r\right) \\ &= 26 \text{ m} + \left(2 \times \frac{22}{7} \times 3.5\right) \text{ m} \\ &= 26 \text{ m} + 22 \text{ m} = 48 \text{ m}. \end{aligned}$$

Q.No. 90 – The given answer is correct.

Question: What is the time _____ your watch?

Clarification: The correct use of preposition is *by* your watch and not *in* your watch.

Q.No. 96, 97, 98 – Questions were found inconsistent and deleted.

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REVISED ANSWER KEY

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