



NACT Maths Practice Set (Class 5) – 100 Questions with Answers



Logical Reasoning (Q1–Q25)

Q1. What comes next in the pattern? 2, 4, 8, 16, __

a) 20 b) 24 c) 32 d) 18

Ans: c) 32

Q2. Find the odd one out: 12, 18, 24, 36, 49

a) 12 b) 18 c) 24 d) 49

Ans: d) 49

Q3. Which number is missing? 27, 36, __, 54, 63

a) 45 b) 40 c) 48 d) 50

Ans: a) 45

Q4. Riya is facing North. She turns 90° right, then 180° left. Direction now?

a) North b) East c) West d) South

Ans: c) West

Q5. If TABLE $\rightarrow$ UBCMF, then CHAIR is coded as:

a) DIBJS b) DBHJS c) DIBKR d) DIBIR

Ans: a) DIBJS

Q6. $6 + 3 = 27$, $4 + 5 = 36$, $2 + 7 = ?$

a) 72 b) 63 c) 54 d) 81

Ans: b) 63

Q7. A clock shows 3:15. Angle between hands?

a) 45° b) 90° c) 7.5° d) 60°

Ans: a) 7.5°

Q8. Pattern: $\bigcirc \bigcirc \square \bigcirc \bigcirc \square \bigcirc \bigcirc \square$ __

a) $\bigcirc$ b) $\square$ c) $\bigcirc \bigcirc$ d) $\square \square$

Ans: a) $\bigcirc$

Q9. Count triangles: $\blacktriangle \triangle \blacktriangle \triangle \blacktriangle$

a) 5 b) 6 c) 7 d) 8

Ans: b) 6

Q10. If 1 star = 2 circles, 1 circle = 3 squares.

2 stars = ? squares

a) 6 b) 12 c) 18 d) 24

Ans: d) 24

Q11. Which number is 4th to the right of 8?

Series: 3, 5, 7, 8, 2, 9, 6, 4

a) 6 b) 4 c) 9 d) 3

Ans: b) 4

Q12. Next term: A1, B2, C3, D4, __

a) E4 b) E5 c) F6 d) D5

Ans: b) E5

Q13. Middle letter of English alphabet?

a) M b) N c) O d) L

Ans: b) N

Q14. Analogy: $144 : 12 :: 100 : \underline{\hspace{1cm}}$

a) 10 b) 20 c) 50 d) 25

Ans: a) 10

Q15. How many 3-digit numbers with 1,2,3 (no repetition)?

a) 3 b) 6 c) 9 d) 12

Ans: b) 6

Q16. Which is odd one out: Circle, Square, Rectangle, Cube

Ans: d) Cube

Q17. If MONDAY $\rightarrow$ NPOEBZ, then FRIDAY $\rightarrow$?

a) GSJEBZ b) GSJCBZ c) GRJEBZ d) GSIEAZ

Ans: a) GSJEBZ

Q18. Pattern: 5, 10, 20, 40, __

a) 60 b) 70 c) 80 d) 90

Ans: c) 80

Q19. Odd one: 64, 81, 121, 100, 150

Ans: 150 (not a perfect square)

Q20. Which direction is opposite of South-East?

Ans: North-West

Q21. Find the missing number: 2, 6, 12, 20, ?

a) 28 b) 30 c) 32 d) 24

Ans: a) 28

Q22. Odd letters: A, E, I, O, S

Ans: S (not vowel)

Q23. If ALL = 36, CAT = 48, then DOG = ?

Ans: 53

Q24. Which figure completes pattern:

▲■●▲■●▲■_

Ans: ●

Q25. Find the next term: 11, 13, 17, 19, _

Ans: 23

2 Mathematical Reasoning (Q26–Q50)

Q26. 25% of 200 = ? → Ans: 50

Q27. Sum of triangle angles = ? → Ans: 180°

Q28. $(36 \div 6) \times (3 + 2) = ?$ → Ans: 30

Q29. LCM of 6 and 9 → Ans: 18

Q30. Square of 15 = ? → Ans: 225

Q31. Divisible by 5 if last digit = ? → Ans: 0 or 5

Q32. $2.5 + 1.75 = ?$ → Ans: 4.25

Q33. Cube edges? → Ans: 12

Q34. 1 litre = ? mL → Ans: 1000 mL

Q35. Largest fraction: $\frac{3}{4}$, $\frac{4}{5}$, $\frac{5}{6}$, $\frac{5}{8}$ → Ans: $\frac{5}{6}$

Q36. $\frac{3}{4}$ of ₹120 = ? → Ans: ₹90

Q37. $16 \times ? = 256$ → Ans: 16

Q38. Perimeter of square side 8 cm → Ans: 32 cm

Q39. Area rectangle $l=10$, $b=4$ → Ans: 40

cm^2

Q40. Roman numeral for 49 → Ans: XLIX

Q41. HCF of 24 and 36 → Ans: 12

Q42. Cube of 9 → Ans: 729

Q43. Simplify: $45 \div (9 \div 3)$ → Ans: 15

Q44. 1 dozen bananas = ? → Ans: 12

Q45. Perimeter of rectangle 12×5 cm → Ans: 34 cm

Q46. If side = 7 cm, area square = ? → Ans: 49 cm^2

Q47. $\sqrt{121} = ?$ → Ans: 11

Q48. Largest 3-digit number divisible by 9? → Ans: 999

Q49. $\frac{1}{3}$ of 240 → Ans: 80

Q50. 15% of 200 → Ans: 30

3 Everyday Mathematics (Q51–Q75)

Q51. 2 pens ₹12 each + notebook ₹25 = ? → Ans: ₹49

Q52. Train 10:30–1:45 journey time = ? → Ans: 3 hr 15 min

Q53. Raju earns ₹150 $\times$ 15 days → Ans: ₹2250

Q54. 1.5 L = ? mL → Ans: 1500 mL

Q55. ₹10/day $\times$ 6 weeks → Ans: ₹420

Q56. Football ₹299, paid ₹500 → change = ? → Ans: ₹201

Q57. Room 5 m $\times$ 4 m → area = ? → Ans: 20 m^2

Q58. 3 pencils ₹18 → cost 5 = ? → Ans: ₹30

Q59. Clock 7:45 → minutes past 7 = ? → Ans: 45

Q60. ₹200 – ₹75 – ₹50 → left = ? → Ans: ₹75

Q61. Car speed 60 km/h. Distance in 2 h = ? → Ans: 120 km

Q62. Water bottle 750 mL. 4 bottles = ? L → Ans: 3 L

Q63. Weekly pocket money ₹50 $\times$ 12 weeks
 → Ans: ₹600

Q64. A movie starts 6:30 PM, ends 9:00 PM
 → duration? Ans: 2 hr 30 min

Q65. Pizza ₹240 $\div$ 6 friends → share each?
 Ans: ₹40

Q66. Book costs ₹150, discount 10% →
 price? Ans: ₹135

Q67. Daily walk 2 km $\times$ 30 days → total = ?
 → Ans: 60 km

Q68. Electricity bill: Apr ₹1200, May ₹1350.
 Increase = ? → Ans: ₹150

Q69. Farmer has 48 apples, packs 6 per bag
 → number of bags? Ans: 8

Q70. 100 students, 45 girls → boys = ? Ans:
 55

Q71. You buy 3 shirts ₹450 total → 1 shirt =
 ? Ans: ₹150

Q72. Distance Orai to Kanpur 120 km, time
 3 hr → speed = ? Ans: 40 km/h

Q73. Milk costs ₹32/L. 5 L = ? Ans: ₹160

Q74. If pencil costs ₹8, 12 pencils = ? Ans:
 ₹96

Q75. Train departs 2:45 PM, arrives 6:30 PM
 → journey = ? Ans: 3 hr 45 min

Achievers Section – HOTS (Q76–Q100)

Q76. Smallest 4-digit divisible by 12? Ans:
 1008

Q77. Which is prime? (33, 29, 21, 91) → Ans:
 29

Q78. $(3+2)^2 - (4-1)^2 = ?$ → Ans: 16

Q79. Rectangle vs square, equal perimeter
 → area bigger? Ans: Square

Q80. Number $\div 4 \times 8 = 64$ → number? Ans:
 32

Q81. Difference between smallest & largest
 4-digit (1,2,3,4 no repeat)? Ans: 3087

Q82. Not factor of 60? (5,6,9,15) → Ans: 9

Q83. Sum of first 10 even numbers → Ans:
 110

Q84. Square side 10 cm, equal area
 rectangle $l=20$ → breadth? Ans: 5 cm

Q85. If $\bullet + \bullet = 12$, $\bullet \times \bullet = 36$ → $\bullet = ?$ Ans: 6

Q86. If $7^2 - 5^2 = ?$ → Ans: 24

Q87. Next prime after 50 → Ans: 53

Q88. $1/2$ of $3/4 = ?$ → Ans: $3/8$

Q89. Simplify: $(100 \div 4) + (12 \times 2)$ → Ans: 49

Q90. Find HCF of 72, 108 → Ans: 36

Q91. Find LCM of 14, 20 → Ans: 140

Q92. Perimeter of equilateral triangle side
 25 cm → Ans: 75 cm

Q93. 3 consecutive even numbers sum = 48
 → numbers? Ans: 14,16,18

Q94. Cube root of 343 = ? → Ans: 7

Q95. If radius = 7 cm, circumference = ?
 ($\pi=22/7$) → Ans: 44 cm

Q96. Greatest 4-digit divisible by 25 → Ans:
 9975

Q97. Area of square 144 cm^2 → side = ? Ans:
 12 cm

Q98. If $x = 5$, value of $2x^2 + 3x$ → Ans: 65

Q99. Simplify: $2/3$ of 90 → Ans: 60

Q100. The product of first 5 prime numbers?
 $2 \times 3 \times 5 \times 7 \times 11$ → Ans: 2310