

NACT Aptitude & Reasoning exam Practice Set
class-8th

Section 1: Logical Reasoning (25 Questions)

1. Which number will complete the series?
7, 14, 28, 56, ?

a) 84 b) 98 c) 112 d) 126

Ans: c) 112

2. In a certain code, TREE is written as UQFD. How is LEAF written in that code?

a) MDFE b) MDFF c) MDFF d) MDGE

Ans: d) MDGE

3. If $P \times Q$ means P is the father of Q and $P + Q$ means P is the mother of Q, which of the following represents "A is the grandmother of C"?

a) $A + B \times C$ b) $A \times B + C$ c) $A + B + C$
d) $A \times B \times C$

Ans: a) $A + B \times C$

4. Choose the odd one out:

a) Square b) Rectangle c) Triangle d) Circle

Ans: d) Circle

5. Which of the following is the mirror image of the word BOWL?

a) $\neg$ WOB b) LOWB c) WOBL d) $\neg$ LOW

Ans: a) $\neg$ WOB

6. If $5 = 35$, $6 = 48$, $7 = 63$, then $8 = ?$

a) 64 b) 72 c) 80 d) 96

Ans: b) 72

7. Ramesh is 4 years older than Suresh. The sum of their ages is 32. How old is Suresh?

a) 12 b) 14 c) 16 d) 18

Ans: b) 14

8. If CAT = 3120, then DOG = ?

a) 4157 b) 4158 c) 4159 d) 4156

Ans: a) 4157

9. Which Venn diagram best represents the relationship between Doctors, Women, Humans?

a) Three separate circles b) All inside one another c) Women and Doctors intersect inside Humans d) Doctors completely inside Women

Ans: c) Women and Doctors intersect inside Humans

10. Find the missing term: 3, 6, 12, 24, ?

a) 36 b) 48 c) 60 d) 72

Ans: b) 48

11. Ravi's house is to the north of the school. The park is to the east of the school. In which direction is Ravi's house from the park?

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

Ans: b) North-East

12. Arrange in a meaningful order: Seed, Plant, Fruit, Flower, Tree

a) 1-2-4-3-5 b) 1-2-5-4-3 c) 1-5-4-3-2
d) 1-3-4-2-5

Ans: b) 1-2-5-4-3

13. If DELHI is coded as EFMIIJ, then LUCKNOW is coded as:

a) MVDOOPX b) MVCLMPX c) MVCLNPX d) MVCLMPW

Ans: c) MVCLNPX

14. Which figure will complete the given pattern?

a) Fig A b) Fig B c) Fig C d) Fig D

Ans: c) Fig C

15. Find the missing number:

8	5	3
4	6	2
?	3	4

(Row sum = 16)

- a) 9 b) 8 c) 7 d) 6

Ans: a) 9

16. If MONDAY is written as NOMDAY, how is FRIDAY written?

- a) RIFDAY b) IFRDAY c) FRDIAY d) RIFADY

Ans: a) RIFDAY

17. Which number should replace the question mark? 2, 6, 12, 20, ?

- a) 28 b) 30 c) 32 d) 36

Ans: b) 30

18. Which is the odd one out?

- a) Mango b) Apple c) Banana d) Potato

Ans: d) Potato

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

- a) 53 b) 52 c) 54 d) 56

Ans: b) 52

20. Find the next figure in the sequence: ▲, ■, ●, ▲, ■, ?

- a) ▲ b) ■ c) ● d) ■■

Ans: c) ●

21. If TABLE is written as 51234, and LAMP as 3456, then MAPLE = ?

- a) 63415 b) 63514 c) 63451 d) 63145

Ans: b) 63514

22. Which term will replace the question mark? 4, 6, 9, 13, 18, ?

- a) 24 b) 25 c) 26 d) 27

Ans: b) 25

23. If MONKEY is written as XDJMNL, then ELEPHANT is written as:

- a) VQVKZMG b) VQVKZMGZ c) VQVKZMGY d) VQVKZMGX

Ans: a) VQVKZMG

24. Find the odd number: 121, 144, 169, 225

- a) 121 b) 144 c) 169 d) 225

Ans: b) 144

25. Which number should come next in the series? 5, 10, 20, 40, ?

- a) 60 b) 70 c) 80 d) 100

Ans: c) 80

Section 2: Verbal & Non-Verbal Reasoning (25 Questions)

26. Choose the synonym of *Eloquent*:

- a) Quiet b) Fluent c) Shy d) Weak

Ans: b) Fluent

27. Choose the antonym of *Transparent*:

- a) Clear b) Opaque c) Translucent d) Bright

Ans: b) Opaque

28. Birds : Nest :: Bees : ?

- a) Hive b) Hole c) Web d) Den

Ans: a) Hive

29. Book : Reading :: Fork : ?

- a) Writing b) Drawing c) Eating d) Cooking

Ans: c) Eating

30. Which word does not belong to the group?

- a) Mango b) Apple c) Banana d) Potato

Ans: d) Potato

31. Rearrange the letters to form a meaningful word: DROWD

- a) Sword b) Drows c) Dword d) Words

Ans: d) Words

32. If ALL is coded as 26, SUN as 54, then MOON is:

- a) 57 b) 60 c) 63 d) 66

Ans: c) 63

33. Pointing to a boy, Seema said, "He is my father's only son's son." Relation?

- a) Son b) Nephew c) Brother d) Cousin

Ans: c) Brother

34. Find the odd pair:

- a) Inch – Length b) Kilogram – Weight
c) Litre – Capacity d) Hour – Speed

Ans: d) Hour – Speed

35. Find the missing letter: A, D, I, P, ?

- a) U b) V c) W d) X

Ans: b) V

36. Antonym of *Ancient*:

- a) Old b) New c) Antique d) Historical

Ans: b) New

37. Synonym of *Brave*:

- a) Fearless b) Weak c) Afraid d) Quiet

Ans: a) Fearless

38. Lion : Den :: Rabbit : ?

- a) Hole b) Nest c) Burrow d) Cave

Ans: c) Burrow

39. Cow : Milk :: Hen : ?

- a) Egg b) Meat c) Nest d) Coop

Ans: a) Egg

40. Odd one out:

- a) Book b) Pen c) Chalk d) Paper

Ans: c) Chalk

41. Complete the analogy: Hand : Glove :: Foot : ?

- a) Sock b) Shoe c) Sandal d) All

Ans: d) All

42. Antonym of *Rapid*:

- a) Fast b) Slow c) Swift d) Quick

Ans: b) Slow

43. Rearrange: LATE

- a) TALE b) TEAL c) TAEL d) ALL

Ans: a) TALE

44. Odd one out:

- a) Gold b) Iron c) Silver d) Wood

Ans: d) Wood

45. Needle : Thread :: Pen : ?

- a) Pencil b) Ink c) Paper d) Book

Ans: b) Ink

46. Find the analogy: Eye : See :: Ear : ?

- a) Listen b) Sound c) Hear d) Music

Ans: c) Hear

47. Synonym of *Happy*:

- a) Sad b) Joyful c) Angry d) Gloomy

Ans: b) Joyful

48. Opposite of *Victory*:

- a) Win b) Loss c) Gain d) Profit

Ans: b) Loss

49. Odd one out:

- a) Eagle b) Pigeon c) Crow d) Bat

Ans: d) Bat

50. Which word can be made from "LISTEN"?

- a) Silent b) Line c) Lint d) All of these

Ans: d) All of these

Section 3: Mental Ability (25 Questions)

51. If $4 + 5 = 41$, $3 + 7 = 52$, then $6 + 8 = ?$

- a) 98 b) 104 c) 96 d) 100

Ans: a) 98

52. Missing number:

2 3 6
4 5 20
6 7 ?

- a) 42 b) 48 c) 50 d) 54

Ans: a) 42

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

- a) 37.5° b) 45° c) 52.5° d) 60°

Ans: a) 37.5°

54. If 5 pencils = ₹20, how many for ₹80?

- a) 15 b) 20 c) 25 d) 30

Ans: d) 30

55. Find the next term: 2, 6, 12, 20, ?

- a) 28 b) 30 c) 32 d) 34

Ans: a) 28

56. What is 20% of 450?

- a) 80 b) 85 c) 90 d) 95

Ans: c) 90

57. The average of 10, 20, 30 is:

- a) 15 b) 20 c) 25 d) 30

Ans: b) 20

58. 15 men complete work in 20 days. 10 men take?

- a) 25 b) 30 c) 35 d) 40

Ans: b) 30

59. Which is the smallest prime number?

- a) 1 b) 2 c) 3 d) 5

Ans: b) 2

60. Square root of 144 = ?

- a) 10 b) 11 c) 12 d) 13

Ans: c) 12

61. Which is not a leap year?

- a) 2000 b) 2004 c) 1900 d) 2016

Ans: c) 1900

62. Pen cost = ₹15, sold at ₹18. Profit %?

- a) 15% b) 18% c) 20% d) 25%

Ans: c) 20%

63. If $\frac{1}{4}$ of a number = 12, number is:

- a) 36 b) 44 c) 48 d) 52

Ans: c) 48

64. If 2 cats have 4 ears, 5 cats have?

- a) 10 b) 8 c) 20 d) 15

Ans: a) 10

65. If today is Wednesday, what will it be after 10 days?

- a) Saturday b) Sunday c) Monday d) Friday

Ans: d) Friday

66. Simplify: $5 \times (8 - 3) + 2 = ?$

- a) 23 b) 25 c) 27 d) 30

Ans: c) 27

67. Which is heavier? 1 kg cotton or 1 kg iron?

- a) Cotton b) Iron c) Equal d) None

Ans: c) Equal

68. If $2 + 2 = 8$, $3 + 3 = 18$, then $4 + 4 = ?$

- a) 24 b) 32 c) 36 d) 40

Ans: b) 32

69. Cost of 12 apples = ₹60. Cost of 5 apples = ?

- a) 20 b) 25 c) 30 d) 35

Ans: b) 25

70. The perimeter of a rectangle is 36, length = 10. Find breadth.

- a) 8 b) 6 c) 10 d) 12

Ans: b) 8

71. $3 + 6 \times 2 = ?$

- a) 15 b) 18 c) 12 d) 9

Ans: a) 15

72. Which is smallest: 0.7, 0.07, 7, 70?

- a) 0.7 b) 0.07 c) 7 d) 70

Ans: b) 0.07

73. If a rectangle's area = 56, breadth = 7, length = ?

- a) 6 b) 7 c) 8 d) 9

Ans: c) 8

74. The cube root of 27 = ?

- a) 2 b) 3 c) 4 d) 5

Ans: b) 3

75. How many sides does a decagon have?

- a) 8 b) 9 c) 10 d) 12

Ans: c) 10

84. If 15% of $x = 90$, $x = ?$

- a) 500 b) 550 c) 600 d) 650

Ans: c) 600

85. Next number: 1, 4, 9, 16, 25, ?

- a) 30 b) 36 c) 40 d) 49

Ans: b) 36

86. A boat goes 20 km downstream in 2 hrs, upstream 20 km in 4 hrs. Speed of boat = ?

- a) 5 b) 6 c) 8 d) 10

Ans: a) 5

87. If $\sqrt{x} = 7$, find x .

- a) 49 b) 77 c) 47 d) 57

Ans: a) 49

88. Two numbers have LCM = 84, HCF = 12. If one = 28, other = ?

- a) 24 b) 36 c) 48 d) 54

Ans: b) 36

89. A man bought a chair at ₹1200, sold at ₹1500. Profit % = ?

- a) 20 b) 25 c) 30 d) 35

Ans: b) 25

80. Sum of three consecutive odd numbers =

81. Smallest = ?

- a) 25 b) 26 c) 27 d) 28

Ans: c) 27

81. If $a + b = 12$ and $a - b = 4$, find ab .

- a) 32 b) 35 c) 40 d) Cannot be determined

Ans: c) 40

82. A man spends $\frac{2}{5}$ on rent, $\frac{1}{4}$ on food.

Salary = 20,000. Savings = ?

- a) 8,000 b) 9,000 c) 10,000 d) 11,000

Ans: b) 9,000

83. Perimeter of a square = 64. Find area.

- a) 128 b) 256 c) 512 d) 1024

Ans: b) 256

90. 10 workers finish a wall in 15 days. 15 workers finish in ?

- a) 8 b) 10 c) 12 d) 15

Ans: b) 10

91. A sum doubles in 8 yrs at simple interest.

Rate % = ?

- a) 10 b) 12.5 c) 15 d) 20

Ans: b) 12.5

92. The HCF of 60 and 72 = ?

- a) 6 b) 8 c) 12 d) 18

Ans: c) 12

93. A pipe fills tank in 4 hrs, another in 6 hrs. Together = ?

- a) 2.4 hrs b) 2.5 hrs c) 3 hrs d) 3.5 hrs

Ans: a) 2.4 hrs

Section 4: Achievers Section (25 Questions)

94. If $5a = 20$, then $a^3 = ?$

- a) 64 b) 8 c) 27 d) 125

Ans: d) 64

95. A man walks 6 km north, then 8 km east.

Distance from start = ?

- a) 10 b) 12 c) 14 d) 15

Ans: a) 10

96. If $2x = 64$, then $x = ?$

- a) 16 b) 32 c) 64 d) 128

Ans: a) 16

97. If a cube has side = 6 cm, find volume.

- a) 216 b) 128 c) 150 d) 256

Ans: a) 216

98. If perimeter of circle = 44 cm, radius = ?

($\pi = 22/7$)

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

Ans: a) 7

99. Which is greater: $3/4$ or $4/5$?

- a) $3/4$ b) $4/5$

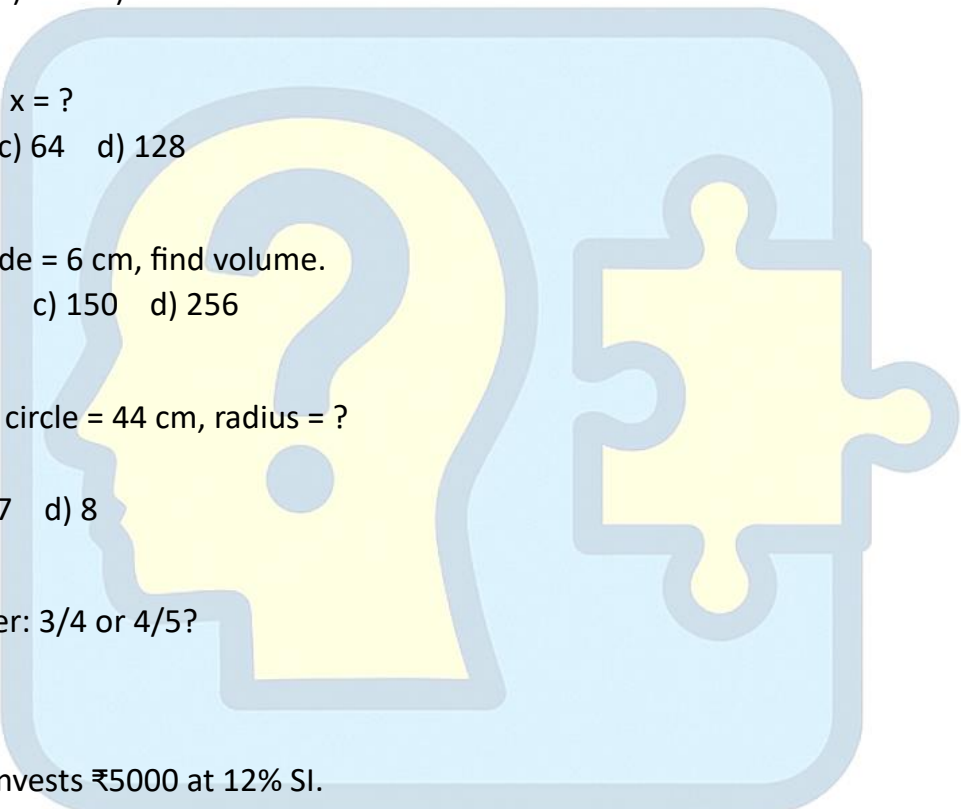
Ans: b) $4/5$

100. A man invests ₹5000 at 12% SI.

Amount after 2 yrs = ?

- a) 6000 b) 6200 c) 6400 d) 6500

Ans: b) 6200



NACT

APTITUDE & REASONING

EXAM