



National Analytical Brains Competition 2025

NAB Competition 2025- Grade 03

Mathematical Ability

All questions are mandatory. Please note there is no negative marking:

1. If $A = B + B + B$, $B = C + C$ and $A + B + C = 99$. Then, find the value of A.
(a) 33 (b) 44 (c) 66 (d) 77
2. A seaman ties seven ropes together to form a long rope. How many knots will there be on the long rope? Assume there were no knots tied at the ends of the long rope?
(a) 5 (b) 6 (c) 7 (d) 8
3. 12 days = ____ hrs.
(a) 288 hours (b) 724 hours (c) 268 hours (d) 148 hours
4. Which of the following is the smallest prime number?
(a) 0 (b) 1 (c) 2 (d) 3
5. What is the difference between the greatest 3-digit number and the smallest 3-digit number?
(a) 898 (b) 899 (c) 900 (d) 999
6. What is the sum of the smallest 2-digit number and the number just before 100?
(a) 110 (b) 109 (c) 99 (d) 111
7. Make the smallest four-digit number using the digits 1, 0, 4, and 2 (without repeating any digit). Which digit will be in the tens place?
(a) 0 (b) 1 (c) 4 (d) 2
8. Rani had 345 m 60 cm of thread. She used 123 m 45 cm to make crafts. How much thread is left with her?
(a) 222 m 25 cm (b) 223 m 15 cm (c) 222 m 15 cm (d) 224 m 15 cm
9. One soap weighs 56 grams. What will be the weight of 7 such soaps?
(a) 392 grams (b) 382 grams (c) 386 grams (d) 396 grams
10. Which one of the following is correct about the statements below?
Statement A: There are 7 days in a week and February always has 29 days.
Statement B: A clock shows 3 o'clock when the hour hand is on 3 and the minute hand is on 12.
(a) Statement A is correct but Statement B is false
(b) Statement A and B both are correct
(c) Both statements are false
(d) Statement A is false and Statement B is correct

11. Sara's exams went on for 2 weeks in the month of March commencing from 2nd March and then her vacations started. For how many days did her vacations last in March?

MARCH						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- (a) 15 days (b) 16 days (c) 17 days (d) 14 days
12. How many minutes should be added to the time shown by the clock to make it quarter to 7?

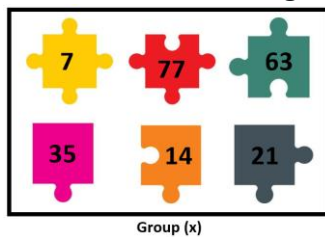


- (a) 15 Minutes (b) 30 Minutes (c) 1 Hour (d) 45 Minutes
13. Find the number which is divided by 5, gives 3 as remainder and 6 as the quotient.
 (a) 33 (b) 30 (c) 27 (d) None of these
14. Elia arrived at the bank at 7:10 am. The sign on the door said, "Bank Hours: 7:30 am – 5:00 pm". How long will Elia have to wait for the bank to open?
 (a) 20 minutes (b) 25 minutes (c) 30 minutes (d) 15 minutes
15. We can write 87 tens
 (a) 870 (b) 87 (c) 8 tens 7 ones (d) 80 tens 7 ones
16. A car travels 80 km in one hour. How much time will it take to cover 40 km?
 (a) 15 minutes (b) 30 minutes (c) 20 minutes (d) 1 hour
17. Which one is different: 6, 7, 9, 12, 18.
 (a) 6 (b) 7 (c) 12 (d) 9
18. If 804 chocolates are shared among 4 children, each child gets:
 (a) 21 (b) 801 (c) 201 (d) 3216
19. A book costs ₹85. Rohan has ₹100. How much change will he get back?
 (a) ₹10 (b) ₹15 (c) ₹20 (d) ₹25
20. A bus leaves city A at 8:00 am and reaches city B at 12:00 pm. On the way, it stops for 30 minutes for a break. How many hours did the bus travel excluding the break?
 (a) 3.5 hrs (b) 4 hrs (c) 4.5 hrs (d) 5 hrs

Logical Reasoning

All questions are mandatory. Please note there is no negative marking:

21. If 'WAY' is coded as '679', 'MAY' is coded as '579', then 'YAW' will be coded as?
 (a) 976 (b) 769 (c) 679 (d) 579
22. If DESK is called CHAIR, CHAIR is called BLACKBOARD, BLACKBOARD is called DUSTER and DUSTER is called CHALK, then where does the teacher write in the classroom?
 (a) DESK (b) CHAIR (c) DUSTER (d) BLACKBOARD
23. Which of the following belong to group (x)?



- (a) (b) (c) (d)

24. Find the correct mirror image of the given figure.

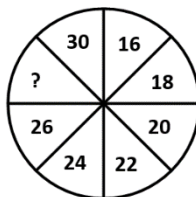


- (a) (b) (c) (d)

25. Complete the series: 3, 6, 12, 24, ____

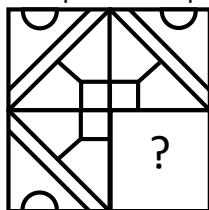
- (a) 36 (b) 42 (c) 48 (d) 60

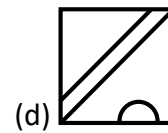
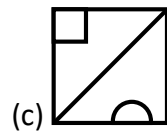
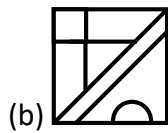
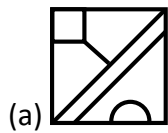
26. Find the number which will replace the '?' mark.



- (a) 19 (b) 28 (c) 32 (d) 34

27. Select a figure from the options which when placed in the blank space of Fig. (X) would complete the pattern.

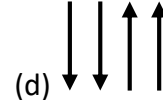
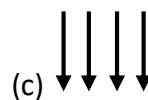
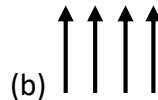
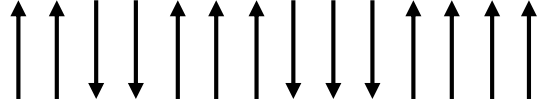




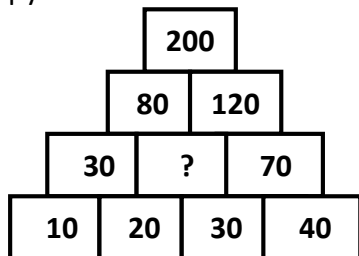
28. If 'Fish' is to 'Gills', then a 'Man' is to

- (a) Ear (b) Eye (c) Lungs (d) Nose

29. Find the next figure to complete the given figure pattern?

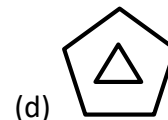
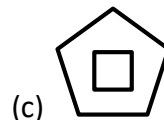
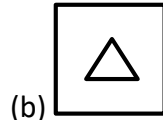
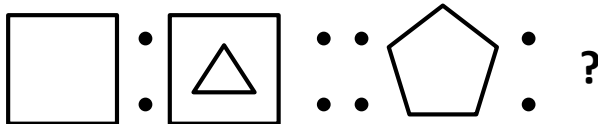


30. Which one of the following number should be inserted in the blank box in the following pyramid?



- (a) 154 (b) 85 (c) 26 (d) 50

31. There are a certain relationship between the pair figure on the either side of :: identify the relationship between the left and find the missing figure?



32. If today is Wednesday, what will be the day after 10 days?

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

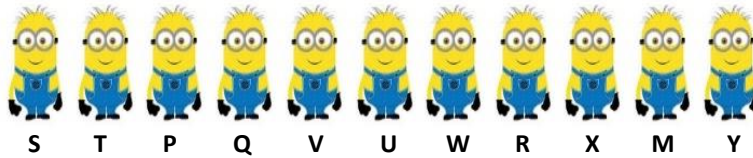
33. If 'Clock' means 'Key', 'Key' means 'Speaker' and 'Speaker' means 'Pen', then _____ is used to open the lock?

- (a) Key (b) Pen (c) Speaker (d) Clock

34. Priyanka will arrive at the Manor resort in Kerala on 8th July and will stay three nights. On what date will Priyanka check out from the resort?

- (a) 12th July (b) 11th July (c) 15th July (d) 7th July

35. In minion S and T are removed, then minion ____ is fifth to the left of minion Q?

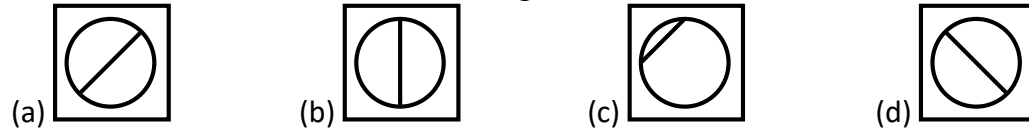


- (a) X (b) Y (c) M (d) R

36. If in a certain code CAT = DBU, then DOG = ?

- (a) EPH (b) DPG (c) EOH (d) EOF

37. Find the odd one out from the following?



38. Find the code for "SNIPER" from the below tables.

Letters	I	E	R	M	S	N	P
Code	%	#	*	=	&	\$?

- (a) & \$ % ? # * (b) * = & \$? % (c) & \$? % * = (d) \$ % ? # * &

39. If Penguin M is removed from the given arrangement, then Penguin _____ is third from the left end?



- (a) M (b) K (c) U (d) S

40. Arrange the given objects from shortest to tallest?



- (a) S, R, P, Q (b) Q, R, S, P (c) S, P, R, Q (d) P, Q, R, S

Daily Life Problems - I

Riya had 50 rupees. She bought a pen for 15 rupees and a notebook for 20 rupees. Later, her mother gave her 10 rupees more.

41. How much money did Riya spend in total?
(a) ₹15 (b) ₹20 (c) ₹35 (d) ₹45
42. How much money was left after buying both items?
(a) ₹10 (b) ₹15 (c) ₹20 (d) ₹25
43. After receiving 10 rupees from her mother, how much money did Riya have?
(a) ₹15 (b) ₹20 (c) ₹25 (d) ₹30
44. If Riya gives ₹5 to her friend, how much money will she have left?
(a) ₹10 (b) ₹15 (c) ₹20 (d) ₹25
45. After all above activities, if she want to buy more pens, then how many pens she can buy?
(a) 0 (b) 1 (c) 2 (d) 3

Daily Life Problems - II

Meena had ₹100. She bought a toy car for ₹35 and three balloons for ₹15. Later, she found ₹20 in her bag. After this, she gave ₹10 to her younger brother to buy ice cream.

46. How much money was left with Meena after buying the toy car and balloons?
(a) ₹40 (b) ₹45 (c) ₹50 (d) ₹55
47. After finding money in her bag, how much money did Meena have before giving her brother ice cream money?
(a) ₹55 (b) ₹60 (c) ₹65 (d) ₹70
48. Finally, how much money did Meena have left?
(a) ₹50 (b) ₹55 (c) ₹60 (d) ₹65
49. The amount of money Meena gave to her brother is equal to the cost of how many balloons?
(a) 1 (b) 2 (c) 3 (d) None of these
50. If Meena wanted to buy two more toy cars with the money she had finally left, how much more money would she still need?
(a) ₹10 (b) ₹15 (c) ₹20 (d) ₹25

ANSWER KEY

1.	C	2.	B	3.	A	4.	C	5.	B
6.	B	7.	D	8.	C	9.	A	10.	D
11.	B	12.	D	13.	A	14.	A	15.	A
16.	B	17.	B	18.	C	19.	B	20.	A
21.	A	22.	C	23.	A	24.	B	25.	C
26.	B	27.	A	28.	C	29.	C	30.	D
31.	C	32.	B	33.	D	34.	B	35.	A
36.	A	37.	C	38.	A	39.	C	40.	A
41.	C	42.	B	43.	C	44.	C	45.	B
46.	C	47.	D	48.	C	49.	B	50.	A