

NAB Competition 2021- II - 6th

National Analytical Brains Competition 2021-II- 6th

* Required

1. Name *

2. Registration ID *

3. Contact Number (registered one) *

Mathematical Ability

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

4. 1. A non-zero number added to itself equals the multiplication of the number with itself. The number is :

Mark only one oval.

1

2

3

4

5. 2. The ratio of boys to girls in a school is 5:2. The number of boys is more by 450 than that of girls. How many students are there in that school?

Mark only one oval.

- 650
 750
 1050
 950

6. 3. Which of the following statements is not true?

Mark only one oval.

- Both addition and multiplication are closed for whole numbers.
 Addition and multiplication both are commutative for whole numbers
 Zero is the identity for multiplication of whole numbers.
 Multiplication is distributive over addition for whole numbers.

7. 4. Which of the following pairs is not co prime?

Mark only one oval.

- 42, 60
 25, 12
 1, 3
 31, 13

8. 5. Find the largest number that divides 876 and 329 leaving remainders 2 and 6, respectively

Mark only one oval.

- 15
 19
 17
 21

9. 6. If the number 56_795 is divisible by 3, then the digit in the blank space will be:

Mark only one oval.

- 0
- 2
- 1
- 3

10. 7. The absolute value of an integer is less than the integer

Mark only one oval.

- False
- True
- Can't say
- None of these

11. 8. In an examination which has questions worth 100 marks, Innika scores 52 marks while Pavani loses 32 marks in her paper. What is the ratio of the marks of Innika to that of Pavani ?

Mark only one oval.

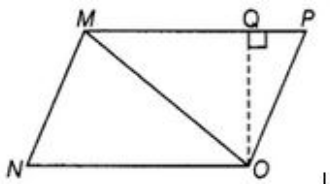
- 17:13
- 26:35
- 13:17
- None of these

12. 9. Cost of one dozen calculators is ₹ 1644. How much is the cost of 8 such calculators?

Mark only one oval.

- ₹131.52
- ₹137
- ₹1096
- ₹1315.2

13. 10. Ratio of area of ΔMNO to the area of parallelogram $MNOP$ in the figure is :



Mark only one oval.

- 1:1
- 1:2
- 2:1
- 2:3

14. 11. $53 \times (-9) - (-109) \times 53 =$

Mark only one oval.

- 6254
- 5300
- 5300
- 6254

15. 12. Natural numbers are closed under subtraction.

Mark only one oval.

- True
- False
- Can't Say
- None of these

16. 13. 4 bells ring at intervals of 8, 60, 36, 20 seconds, respectively. If the bells ring together at 10 o'clock, when will they ring together again?

Mark only one oval.

- 10:04
- 10:05
- 10:06
- 10:10

17. 14. What is the value of this expression?

$$[32 + 2 \times 17 + (-6)] \div 15$$

Mark only one oval.

- 24.9
- 12
- 6
- 4

18. 15. Cost of fencing around a square field is ₹ 24000. If the cost of fencing per meter is ₹ 30, find the area of the square field.

Mark only one oval.

- 14400 sq m
- 72000 sq m
- 800 sq m
- 40000 Sq m

19. 16. When 9 is divided by 3 and result is added to their difference, what is the number so obtained?

Mark only one oval.

- 8
- 6
- 9
- 4

20. 17. Nikita wants to cover the floor of a room 3 m wide and 5 m long by square tiles. If each square tile is of side 0.5 m, then find the number of tiles required to cover the floor of the room.

Mark only one oval.

- 48
- 60
- 46
- None of these

21. 18. Along a highway, there are teak trees on one side of the highway and neem on the other side. The teak trees are separated by 10 m and the neem trees are separated by 36 m. If a teak and a neem tree both are present at the point where the highway begins, after how much distance along the highway will they both be in front of each other again?

Mark only one oval.

- 46 m
- 120 m
- 360 m
- 180 m

22. 19. 1 hectare = _____ sq m

Mark only one oval.

- 10
- 10000
- 1000
- 100

23. 20. 2540 soldiers were sent out on a mission. Each army truck could carry a maximum of 55 soldiers. How many army trucks were needed to carry all 2540 soldiers?

Mark only one oval.

- 46
- 406
- 64
- 47

Logical Reasoning
Ability

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

24. 21. There is a certain relation between two given words on one side of :: and similar relation is on the other side of :: Find the missing word of the second pair:

Leather: cobbler :: wood : ?

Mark only one oval.

- Furniture
 cottage
 Carpenter
 Mason

25. 22. Out of the five words four are alike and one is different. Find the different one:

Mark only one oval.

- December
 February
 March
 July
 May

26. 23. Out of the five numbers four are alike in some manner and one is different. Find the different one:

Mark only one oval.

- 17
 27
 29
 37
 59

27. 24. In a certain code , LUTE is written as MUTE and FATE is written as GATE , then how will BLUE be written in that code?

Mark only one oval.

- CLUE
- GLUE
- FLUE
- SLUE

28. 25. Out of the below five words, which will come in middle if arranged alphabetically as in a dictionary:

Mark only one oval.

- Draw
- Read
- Play
- back
- Want

29. 26. If 1st Oct is Sunday, then 1st Nov will be:

Mark only one oval.

- Monday
- Tuesday
- Wednesday
- Thursday

30. 27. If x means $+$, $+$ means $-$, find the value of :

$$16 + 3 \times 5$$

Mark only one oval.

8

18

90

31

31. 28. What is the product of all the numbers in the dial of a phone?

Mark only one oval.

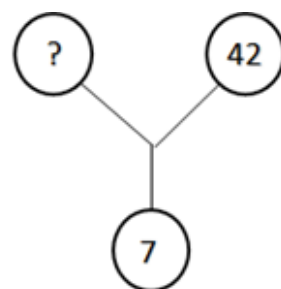
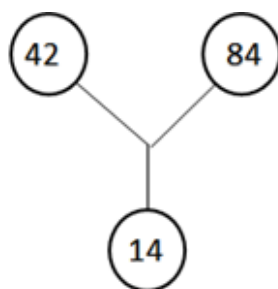
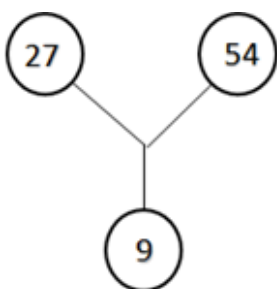
158480

159450

159480

None of These

32. 29. Find the missing number:



Mark only one oval.

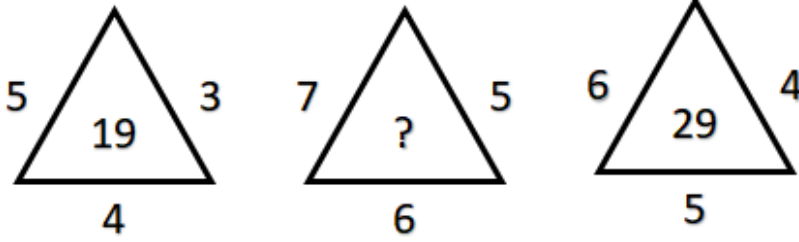
12

21

24

35

33. 30. Find the missing number:



Mark only one oval.

- 25
- 37
- 41
- 47

34. 31. Column wise, numbers follow a particular rule, based on it find the missing number

6	6	8
5	7	5
4	3	?
120	126	320

Mark only one oval.

- 4
- 8
- 12
- 16

35. 32. What should come in place of question mark to make the series in proper sequence?

DdDEeE ? GgG

Mark only one oval.

- LIL
- AaA
- NnN
- FfF
- None of these

36. 33. I go 10 km to the west, then I turn right and go 5 km, I turn right again and go 10 km. In which direction am I from the starting point?

Mark only one oval.

- North
- South
- East
- West

37. 34. In one hour, the long hand of a clock will rotate through an angle of:

Mark only one oval.

- 360°
- 180°
- 90°
- 120°

38. 35. In a certain code language:

(A) **“pat na sof”** means **“bring him water”**

(B) **“na jo tod”** means **“water is life”**

(C) **“txb ol pat”** means **“give him toy”**

(D) **“jo lin kot”** means **“life and happiness”**

Which of the following represents 'is' in that language?

Mark only one oval.

sof

tod

txb

na

39. 36. Pick up the correct option that makes the given series complete.

AA _ _ _ AAAA AAAAA

Mark only one oval.

A

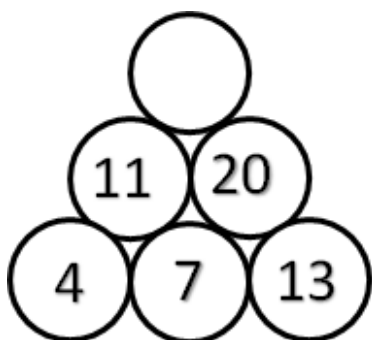
AAA

AA

AAAA

None of These

40. 37. Find the missing number, if same rule is followed in the given figure.



Mark only one oval.

- 33
- 11
- 31
- 24

41. 38. If 'B' stands for '+', 'E' stands for '-', 'R' stands for 'x', 'H' stands for '÷' then :

$$14 \text{ B } 10 \text{ R } 42 \text{ E } 8 \text{ H } 2 = ?$$

Mark only one oval.

- 500
- 430
- 413
- 1004

42. 39. Which letter is exactly midway between G and Q in the below series:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Mark only one oval.

- K
- L
- M
- N

43. 40. Which would be the proper order of the following (in ascending order)

1. Trillion 2. Thousand 3. Billion 4. Hundred 5. Million

Mark only one oval.

1,2,4,3,5

3,2,1,4,5

3,4,5,1,2

4,2,5,3,1

Read the paragraph carefully and answer the questions from 41 to 50 based on that:

Primary education in a city is in a poor shape. Pupils in over 50 percent of the schools read in the open throughout the year. Over six million children born to lower income group parents remain unlettered. Not even one percent of the 63,000 primary schools have facilities of furniture, toilet, drinking water and games. 3113 new teachers have been appointed in the current financial year out of which 2147 are women. Now each of the 13,270 primary schools have at least two teachers. The city government has decided to increase the salary of teachers from ₹25, 000 to ₹30000 per month from the current financial year.

44. Q 41: How many primary school have all the facilities like furniture, toilet, drinking water?

Mark only one oval.

Less than 630 School

More than 630 School

None of These

45. Q 42: In the city, 90 percent of the primary teachers are women:

Mark only one oval.

True

False

Data not sufficient

46. Q 43: in city, 50 percent of the children are illiterate:

Mark only one oval.

- True
- False
- No such info available

47. Q 44: A large number of primary schools in the city are one teacher schools:

Mark only one oval.

- True
- False
- Data Inadequate

48. Q 45: How many parents belong to lower income groups in the city?

Mark only one oval.

- Over 60 lacs
- Over 6 lacs
- Over 60 thousand
- Over 6 crores

49. Q 46: Classrooms in most of the primary schools in the city are inadequate.

Mark only one oval.

- True
- False
- Cannot say

50. Q 47: During current financial year, what percent of total appointments are male teachers?

Mark only one oval.

- Approx. 70%
- Approx. 31 %
- Approx. 45%
- Approx. 55%

51. Q 48: If each primary school requires 5 teachers, then in total how many teachers would be required?

Mark only one oval.

- 315000 Teachers
- 66350 Teachers
- 157500 Teachers
- None of the above

52. Q 49 How much is the increase in salary of teachers in the city?

Mark only one oval.

- 25%
- 20%
- 83%
- 30%

53. Q 50: During current financial year how much total salary will be paid to new appointed male teachers.

Mark only one oval.

- ₹ 2.898 Crores
- ₹ 3.4776 Crores
- ₹ 7.7292 Crores
- ₹ 11.2068 Crores

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