



# National Analytical Brains Competition 2023

## NAB Competition 2023 - Grade 02

### Mathematical Ability

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

1. Which of the following pair of numbers have sum Forty?

- 17, 13
- 26, 24
- 17, 23
- 19, 11

2. Danish was having a Valentine's party. There were 24 presents in the closet and 23 on the table. Then someone opened 12 of the presents. How many were not yet opened?

- 47
- 59
- 35
- 12

3. The number on Aarav 's dog's tag has a 7 in the tens place. It has a 3 in the ones place. What is the number on Aarav 's dog's tag?

- 17
- 37
- 30
- 73



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4. Rajat had 4 apples. He cut each apple into 6 slices. How many apple slices did he have in all?

- 4
- 6
- 10
- 24

5.  
The 4 in 5348 is in the \_\_\_\_\_

- ones place
- tens place
- hundreds place
- thousands place

6. There are 10 bikes and 6 cars in the school parking lot. How many wheels in all?



- 16
- 32
- 44
- 64



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7. The Toy Factory made 90 robots on Tuesday. There are 23 workers at the factory. They sold 54 of the robots on Wednesday. How many robots did they have left?

- 63
- 77
- 36
- 31

8. Tick 3 numbers that have the smallest total.

1 point

4      18      5      22      6      13      7

Row 1

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9.

Arush walks 4 kilometers each day. How many kilometers will he walk in one week?

- 4
- 24
- 7
- 28



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10. What is the date of the fourth Thursday in April?

April						
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					

- 25th
- 19th
- 26th
- 27th

11. It takes you 7 minutes to clean your bed.  
It takes you 2 minutes to brush your teeth.  
It takes you 5 minutes to change your clothes.  
How long will it take you to get ready for bed?

- 10 minutes
- 12 minutes
- 5 minutes
- 14 minutes

12. Which one of the following months is increased by 1 day during the leap year?

- December
- January
- February
- March



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13. A clock is 10 minutes slow. What is the actual time, if it is showing 8:40 a.m.?

- 8:50 a.m.
- 8:40 a.m.
- 8:30 a.m.
- None of these

14. Sameer's 4 friends live on the same street. He wrote down their house numbers. Now he wants to write the house numbers from least to greatest. What should the second house number be?

- 234
- 423
- 324
- 403

15. Which sign is missing?

$$18 \text{ ? } 7 = 11$$

- +
- 
- x
- None of These



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16. In this problem, what is 42?

$$\begin{array}{r} 64 \\ - 22 \\ \hline 42 \\ \hline \end{array}$$

- Difference
- Addend
- Subtrahend
- Minuend

17. Which is the sixth month of the calendar year?

- August
- July
- June
- May





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18. How do you make 75?

- 35 +20
- 90-25
- 58+17
- 89-17

19. Which number makes the equation true?

$$28 - 13 = \underline{\quad} - 9$$

- 15
- 25
- 24
- 26

20. Which number will come in place of "?".

$$9 \times 5 = (8 \times 5) + ?$$

- 10
- 9
- 5
- 8



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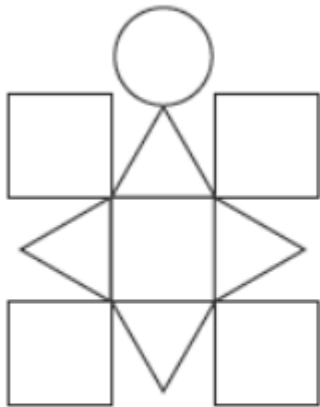
## Logical Reasoning Ability

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

Q 21: Tanvi is standing in a line. There are 3 other children in front of her. There are 8 children behind her. How many children are standing in line?

- 10
- 12
- 9
- 11

Q 22: How many squares are there in the below picture?



- 4
- 5
- 6
- 3

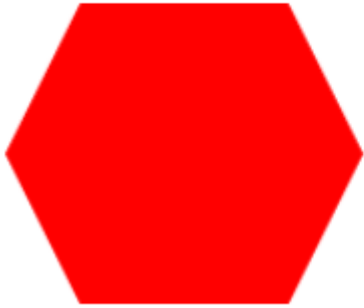




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Q 23: If you cut this hexagon in half, which two shapes will you get?

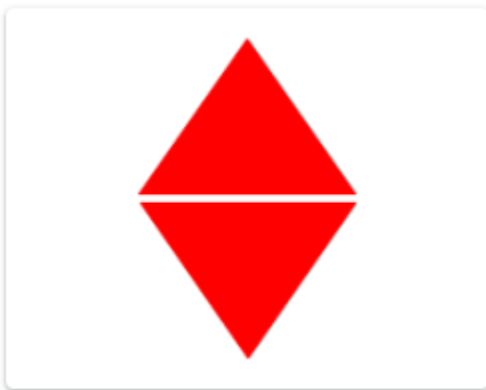
1 point



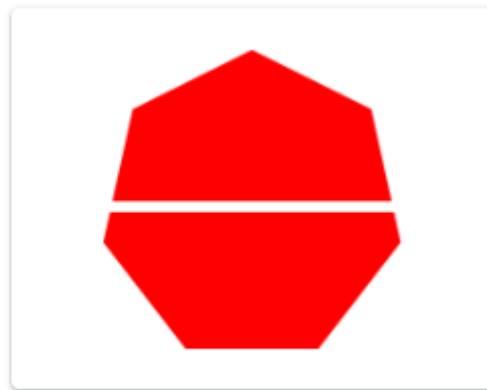
A



B



C



D



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Q 24: Haspreet drops her notebook. She picked up pages 28, 29, 31, 33, 34, and 35. Which pages are missing? 1 point

35      30      32      34      33      31

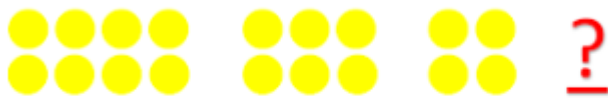
Row 1

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Q 25: Isha has more fruit baskets than her brother Ishan. Isha has 5 fruit baskets. Write how many fruit baskets Ishan may have?

- 5
- 6
- 4
- 7

Q 26: How many balls will come in place of "?"



- 3
- 4
- 2
- 0

Q 27: There is a certain relation between two shapes given on one side of :: . Out of the below four alternatives, one shape will have similar relation with the shape on other side of :: .

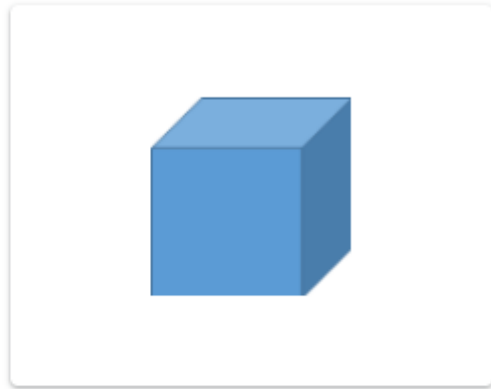




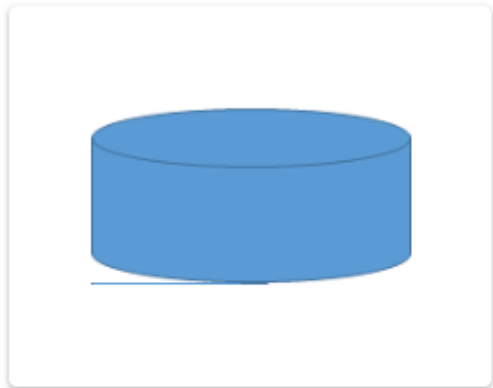
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A



B



C



D

Q 28: Saanvi hears that the class bell rings at 10:00, 10:15, and 10:30. At what time will the bell ring next?

- 11:00
- 10:45
- 11:15
- 11:30



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Q 29: Find the odd one out?



A



B



C



D

- A
- B
- C
- D

Q 30: Three ants are sitting on a number line. Guess on which number the green ant is sitting. 1 point



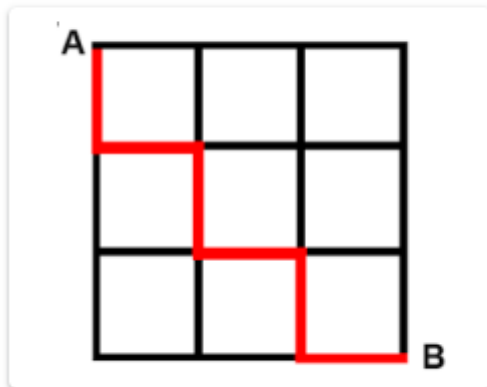
- 50
- 60
- 70
- 30



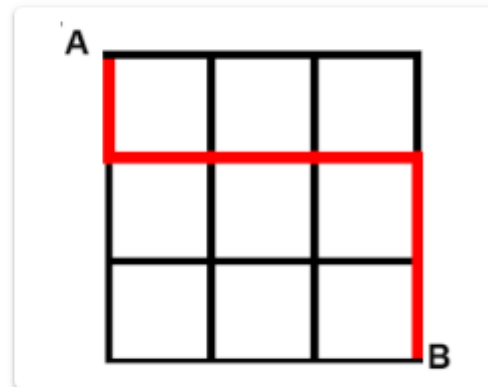
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Q 31: Which one is the shortest route to reach from point A to B?

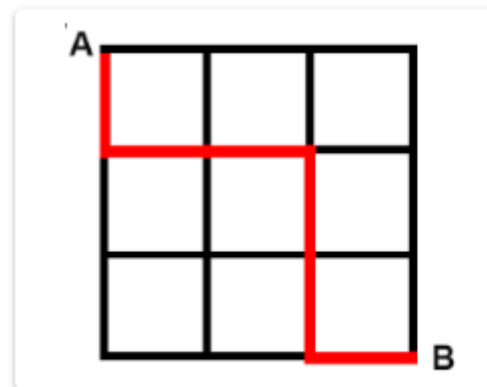
1 point



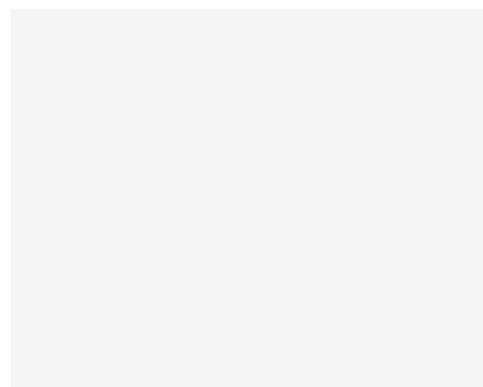
Option 1



Option 2



Option 3



All routes are of equal length

Q 32: Which one is the lightest?

1 point



Potato



Water melon

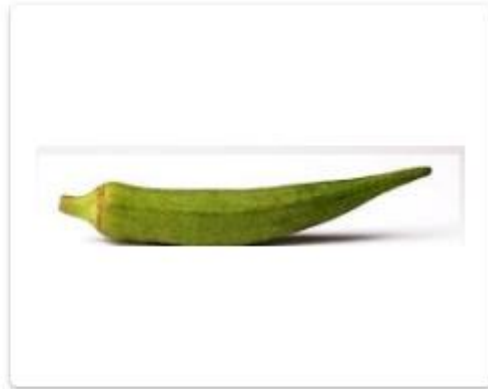




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Mango



Ladyfinger

Q 33: How many groups of 4 Star each can be made from the below stars?



3

4

5

6

Q 34: I have 9 in the ones place. I am greater than 26 but less than 37.  
What number am I?

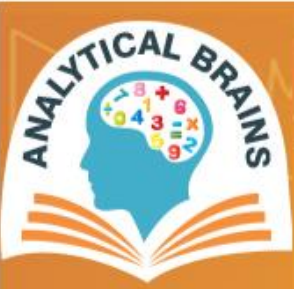
91

29

39

92





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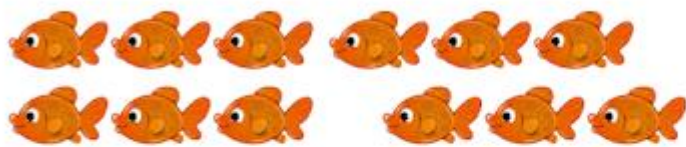
Q 35:

1 point

If **L** means **MM**, **M** means **N**, **N** means **O**, then what is the first letter of MONKEY will be written as:

- L
- M
- N
- O

Q 36: Study the given figures and find which one is the right option:



- 3 groups of 4
- 2 groups of 5
- 5 groups of 3
- 2 groups of 7

Q 37: Which of the following figures will replace (?) to complete the given figure series?





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Option 1



Option 2



Option 3








Option 4



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Q 38: Some figures and their codes are given below. Based on these answer the following question:

Figures					
Codes	&*	\$%	#@	@&	%^

What is the code for:



- &\*&@
- &\*@&
- \$@5^
- \$%%^

Q 39:

"ABC" is coded as "DEF" then "LMN" is coded as \_\_\_\_\_

- MNP
- OPQ
- NOP
- DEF

Q 40: If 'Pencil' is called 'Paper', 'Paper' is called 'Eraser', 'Eraser' is called 'Sharpener', If you make a mistake, then what you use to erase it?

- Eraser
- Paper
- Pencil
- Sharpner



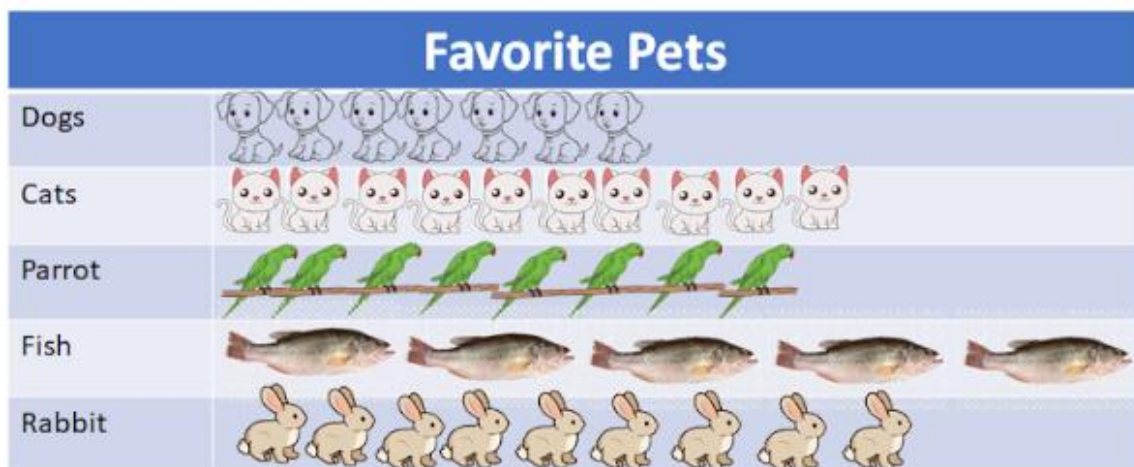
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## Real Life Problems

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

In Ms. Arora's class students pasted pictures to show their favorite pets. Each student put one picture on the graph to show his or her favorite pet.

Use below pic to help answer the questions from 41 to 45.



Q 41: Which pet did most kids like the best?

- Dogs
- Cats
- Fish
- Rabbit
- Parrot





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Q 42: How many more kids like cats than dog, the best?

- 3
- 5
- 2
- 7

Q 43: Which pet did least kids like the best?

- Parrot
- Dog
- Cat
- Fish

Q 44: How many kids put pictures on this graph?

- 5
- 39
- 40
- 41



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Q 45: Which pet is 2nd best favorite?

- Dog
- Rabbit
- Fish
- Cat
- Parrot

Q 46: What will be the best tool to open the screws (marked in red color)

1 point



Option 1



Option 2





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Option 3



Option 4

Q 47: Right now you are in 2nd grade, after 5 years what will be your grade?

- 2
- 5
- 7
- 6

Q 48: Jay, Samir and Nikhil share a School bus seat. Samir sits by the window. Nikhil is not sitting next to Samir. Who sits in the middle?

- Jay
- Samir
- Nikhil
- Can't Say



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Q 49: Normally how long does a bath take?



- 15 Seconds
- 15 minutes
- 15 Hours
- 15 days

Q 50: Today your school is off. What can be the day today?

- Monday
- Wednesday
- Tuesday
- Sunday