



National Analytical Brains Competition 2023

NAB Competition 2023 - Grade 03

1. Raudra thinks that double of every number will be an even number. What will you say about it?

- Correct
- Wrong
- May be even or odd

2. Sanjana has 32 clean dishes to put away after emptying the dishwasher. After she put away 4 dishes, she helped her mother in bringing groceries from the car. Then she put away 7 more dishes. How many dishes still need to be put away?

- 32
- 11
- 21
- 43

3. Prisha is 36 inches tall. Siya is 6 inches taller than Prisha. Vedika is 4 inches taller than Siya. What is the height of Vedika?

- 36 inches
- 40 inches
- 46 inches
- 42 inches



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4. You line up a paper, pencil, and pen and they measure 57 cm, end to end. The paper measures 28 cm, the pencil measures 14 cm. What does the pen measure?

- 99 cm
- 42 cm
- 15 cm
- 14 cm

5. Kiara has 4 cards with 8 stamps on each card. Diya has 8 cards with 4 stamps on each card. Who has more stamps?

- Kiara
- Diya
- Both have equal stamps
- Can't Say

6. Navya had 14 roses and twice as many lilies . How many flowers did Navya have in all?

- 14
- 42
- 28
- 21



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7. Ananya saw some birds sitting on trees . There were 7 birds sitting on each tree. There were 28 birds in all. How many trees were there?

- 28
- 7
- 4
- 3

8. Aditya can wash 5 cars in an hour. Angad can wash 4 cars in an hour. How many cars can Aditya and Angad wash in 5 hours if they work together?

- 25
- 20
- 35
- 45

9. Bhavesh says that 8×7 is the same as $8 \times 5 + 8 \times 2$.

Do you Agree?

- Yes
- No

10. Darsh is 165 cm tall and Devansh is 143 cm tall. Which one of the below options is correct to tell , how many centimeters (C) Darsh is taller than Devansh.

- $165 - 143 = C$
- $165 + 143 = C$
- $165 + C = 143$
- $143 - C = 165$

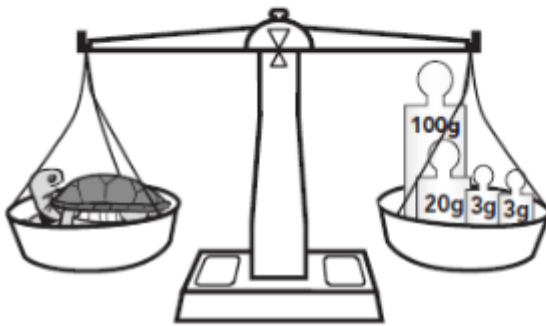


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11. Dhruv's reading class begins at 6:25 p.m. and lasts 1 hour and 25 minutes. What time is his reading class over?

- 7:50 am
- 8:50 am
- 4:00 p.m.
- 7:50 p.m.

12. Look at the pan balance scale. What is the weight of the turtle?



- 900g
- 160g
- 126g
- 360g

13. A sun jellyfish is pretty long. I would measure its length with _____.

- liters
- kilograms
- centimeters
- All are correct



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14 Which is longer:

- Half of Day
- Three times of an Hour
- Half of a month
- Four times of a minutes

15. Which sign will come in place of "?"

$$64 \div 4 \quad ? \quad 13 \times 4$$

- >
- =
- <

16. Bhavin found 46 shells on the beach. He gave half of them to his brother. Then his sister gave Bhavin 12 more shells. Which option can be used to calculate, how many shells does Bhavin have now?

- $(46 \times 2) + 12 = ?$
- $(46 \times 2) - 12 = ?$
- $(46 \div 2) + 12 = ?$
- $(46 \div 2) - 12 = ?$



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17. Danish is buying a toy for his friend birthday. The toy he wants to get him usually costs ₹450 but it is on sale for ₹65 less. How much will the toy cost?

- ₹450
- ₹510
- ₹385
- ₹295

18. Mrs. Harpreet wanted her class to work in groups of 4. After she divided them into groups, there were 6 groups of 4 and 1 group of 3. Total how many students were in the class?

- 10
- 13
- 19
- 27

19. Which of the following set of numbers is in descending order?

- 433, 247, 423, 433
- 984, 789, 799, 624
- 1099, 999, 899, 884
- 1243, 1234, 1324, 1133



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20. Which one of the below digital clock shows the same time as this analog clock?



Option 1



Option 2



Option 3



Option 4



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Logical Reasoning Ability

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

21. If 'fox' is called 'tiger', 'tiger is called 'cow', 'cow' is called 'bear', then which one is a domestic animal?

- Fox
- Cow
- Bear
- Tiger

22. Which pattern will come next"

1 121 12321 ?

- 12331
- 1234321
- 13231
- 1234531

23. How many groups of 4 butterflies can be formed?



- 4
- 5
- 7
- 3



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24. Which figure has been divided in two equal and similar halves by the dotted line?



A



B



C



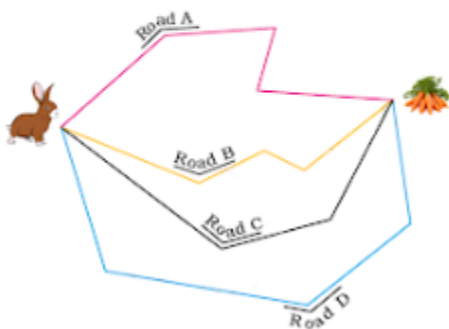
D

- A
- B
- C
- D

25. I have 9 in my name and am very close to 90.

- 96
- 89
- 79
- 99

26. Rabbit has to reach the carrots. He is looking for the shortest road. Can you tell him which is the shortest road?





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- Road A
- Road B
- Road C
- Road D
- None of these

27. If below kids are asked to stand in order of increasing height then who will be at 2nd position.

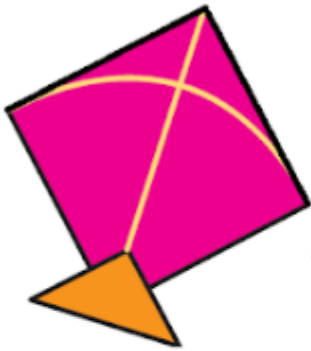


- Vihaan
- Veer
- Darsh
- Arya



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28 How many Straight lines are there in the below kite?



- 6
- 7
- 8
- 9

29. Find the odd one out:

- Monday
- April
- June
- December

30. Observe the following growing patterns of numbers. Find out, next three numbers:

17, 23, 29, 35, 41, _____, _____, _____ .

- 46 , 51,56
- 47,52, 59
- 46, 52, 59
- 47, 53, 59



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31. To pack, for which item you need the biggest bag?

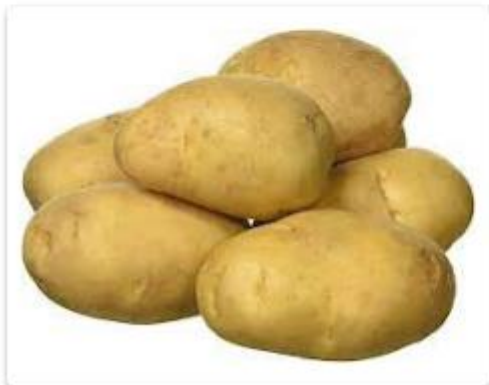
1 point



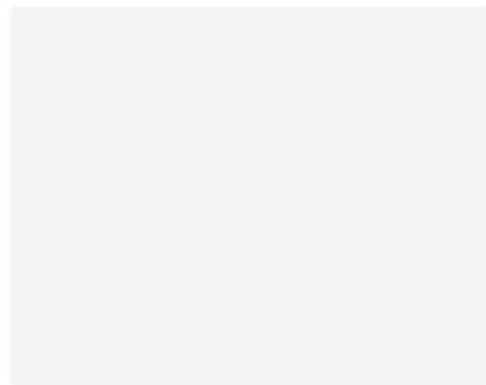
1 KG of Popcorn



1 kg of Sugar



1 Kg of Potato



Same size of bag for all three

32.

If two numbers on either side of $::$ have similar relationship , then find out what will come in place of "?".

24 : 12 :: ? : 8

- 4
- 16
- 24
- 12



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33. If Parrot F flies away , then which parrot will be in the middle?



- C
- D
- E
- B

34. If yesterday was Sunday, then tomorrow will be _____.

- Tuesday
- Wednesday
- Monday
- Friday

35. If BAT is coded as 'TAB', then 'CAR' is coded as

- RAC
- ARC
- ACR
- RCA



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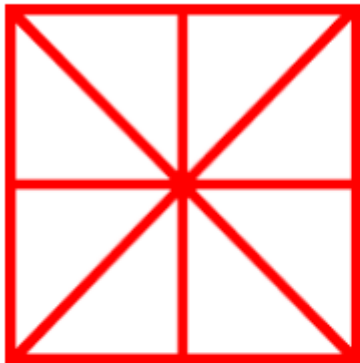
36. Find the code for "CLOSE", from the below tables

1 point

LETTERS	L	S	A	C	E	B	O
CODES	@	#	\$	%	^	&	*

- %@&#^
- %@*\$^
- %@*#^
- %@O^\$

37. How many squares are there in the below figure:



- 4
- 5
- 6
- 8

38. Find the odd one out:

- Camel
- Giraffe
- Elephant
- Fish



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39. Complete the pattern:

ABAABABAABABAA_ _ _ABABAABAB

- ABBA
- ABAB
- BABA
- None of These

40. Which of the following shapes don't have straight line?



- A
- B
- C
- D



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Real Life Problems

Questions from 41 to 43 are interrelated.

Nitya practiced the Long Jump for 43 minutes, and then she practiced the High Jump for 28 minutes.

41. How much time did Nitya spend in practice?

- 61
- 81
- 51
- 71

42. Did she practice more or less than an hour?

- More than an Hour
- less than an Hour
- Equal to an hour
- More than Two hours

43. How many minutes more or less than an hour did Nitya practice?

- 11 minutes more than an hour
- 11 minutes less than an hour
- 21 minutes more than an hour
- 29 minutes less than an hour



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Questions form 44 to 45 are related to each other.

44. You are supposed to be at school at 7:30 a.m. but on Wednesday you were 17 minutes late. What time did you get to school?

- 7:13 a.m.
- 7: 37 a.m.
- 7:47 a.m.
- 7:23 a.m.

45. Your friend was also late to school on that day, but he got there 8 minutes before you. What time did he get to school?

- 7:38 a.m.
- 7:39 a.m.
- 7:22 a.m.
- 7:30 a.m.

Questions from 46 to 50 are inter-related:

Arush is helping his mom get ready for a party. His mom wants him to put flowers in jars to put on the tables. He needs to put 7 flowers in each jar. He has 45 flowers.

46. How many jars can he fill ?

- 7
- 6
- 5
- 8



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47. How many flowers did Arush have left over?

- 0
- 3
- 4
- 6

48. Aarush is buying gifts for his 4 friends. He wants to get each friend a pen that costs ₹ 20 and a pencil that costs ₹4. How much money will he spend in all?

- ₹80
- ₹16
- ₹96
- ₹28

49. Aarush changed his mind and decided to get each of his 4 friends a toy that cost ₹28. How much money will he spend in all?

- ₹32
- ₹102
- ₹112
- ₹92



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50. To buy the gifts Aarush mother gave him:

1. Four coins ₹5
2. Three Notes of ₹10
3. One note of ₹50

with this money which one is correct?

- Aarsh can buy toys as gift
- Aarsuh can buy Pen and Pencil as gift
- Aarush will need ₹4 more to buy Pen and Pencil Gift
- Aarush cannot buy any gift