

NAB Competition 2021- II - 5th

National Analytical Brains Competition 2021-II- 5th

* 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. 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

5. 2. Which of the following pairs is not co prime?

Mark only one oval.

- 42,25
- 45, 12
- 1, 3
- 31, 13

6. 3. Cost of 16 pens are ₹1664. How much is the cost of 10 such pens?

Mark only one oval.

- 140
- 1040
- 104
- None of these

7. 4. Find the value of $60 - 48 \div 8 \times 4 + 8$

Mark only one oval.

- 38
- 42
- 52
- None of these

8. 5. A car travels at a speed of 89 km per hour. How much distance it will cover in 4 days, if it does not stop in between?

Mark only one oval.

- 2136 Km
- 8544 Km
- 356 Km
- 96 Km

9. 6. How many nines are there in 1,00,000?

Mark only one oval.

- 1111
- 11110
- 11111
- None of these

10. 7. In a ship, there are 4084 passengers. One fourth passengers get off the ship and 63 passengers get in the ship. How many passengers are there in the ship now?

Mark only one oval.

- 4147
- 3026
- 3126
- None of these

11. 8. There are 22 working days in a month. Then how many working days will be there in a year?

Mark only one oval.

- 260
- 352
- 252
- 264

12. 9. Two tankers contain 140 liters and 290 liters of petrol, respectively. Find the capacity of the largest measuring container which can measure the petrol of each tanker exactly?

Mark only one oval.

- 430
- 150
- 10
- 290

13. 10. $6+6+6+\dots\dots\dots 250$ times =

Mark only one oval.

- 750
 1500
 250
 None of these

14. 11. If a number is divisible by 6 and 10, it will be necessarily divisible by:

Mark only one oval.

- 30
 60
 16
 4

15. 12. Two consecutive prime numbers whose difference is 2 are called.

Mark only one oval.

- Twin prime
 Even numbers
 Co-primes
 Composite numbers

16. 13. Find the value of $5 \times 50 + 57 - 57 + 57$

Mark only one oval.

- 307
 535
 210
 310

17. 14. 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

18. 15. Natural numbers are closed under subtraction.

Mark only one oval.

- True
 False
 Can't Day

19. 16. 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

20. 17. 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

21. 18. 5 dozen of bananas are bought for ₹250. What will be the cost of 132 bananas?

Mark only one oval.

- ₹550
 ₹560
 ₹6100
 ₹1320

22. 19. A number is as much greater than 28 as is less than 78. Find the number.

Mark only one oval.

- 106
 52
 53
 50

23. 20. There are 2700 magazines published in different languages. If half of them are in English, one fourth are in Hindi and the rest in urdu, how many magazines are there in the English and Hindi language?

Mark only one oval.

- 675
 2025
 150
 1925

Logical Reasoning
Ability

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

24. 21. Which number will replace the question mark in the following?



Mark only one oval.

- 27
 31
 63
 36
25. 22. Which one of the following is the mirror image of the given word?

KITE

ETIK
A

KILE
B

ETIK
C

KITE
D

Mark only one oval.

- A
 B
 C
 D
26. 23. If “+” and “x” signs as well as “6 becomes 8 and 8 becomes 6”, which of the one following is not correct?

Mark only one oval.

- $6+6 \times 8 = 70$
 $3 \times 6 + 8 = 51$
 $8 \times 6 + 8 = 112$
 All are correct

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

HEAD : CAP :: FINGER: ?

Mark only one oval.

- Glove
- Thimble
- Nail
- Thumb

28. 25. Rohan used an addition rule to make this number pattern. Which option out of the four, follow the same rule?

3, 7, 11, 15, 19

Mark only one oval.

- 2, 5, 8, 11, 14
- 4, 8, 12, 16, 20
- 5, 8, 11, 14, 17
- 1, 3, 6, 9, 12

29. 26. The scale below is balanced. If one triangle is added to the left side, how many circles should be added to the right side to keep the scale balanced?



Mark only one oval.

- 4
- 3
- 2
- 1

30. 27. One morning Vivaan started to walk towards the sun. After covering 3 Km he turned to left then again to the left. Now in which direction is he Walking?

Mark only one oval.

- East
 West
 North
 South

31. 28. What replaces the question mark (?)

A, C, E, G, I, ?

Mark only one oval.

- J
 K
 L
 M

32. 29. Find the missing number, if the same rule is followed in all the three figures:



Mark only one oval.

- 9
 12
 18
 13

33. 30. Out of the below five words , four are alike in some manner and one is different . Find the different one:

Mark only one oval.

- Tomato
- Cucumber
- Brinjal
- Carrot
- Gourd

34. 31. Ashna went from her house to Police station. What is the direction of her house in respect of Police Station?

Mark only one oval.

- East
- West
- North
- Sourth
- Can't be determined

35. 32. Which one of the following is the water image of the given word?

MOBILE

ELIBOM

A

MOBIE

B

ELIBOM

C

ELIBOM

D

Mark only one oval.

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

36. 33. How many 25 paise coins make ₹ 6?

Mark only one oval.

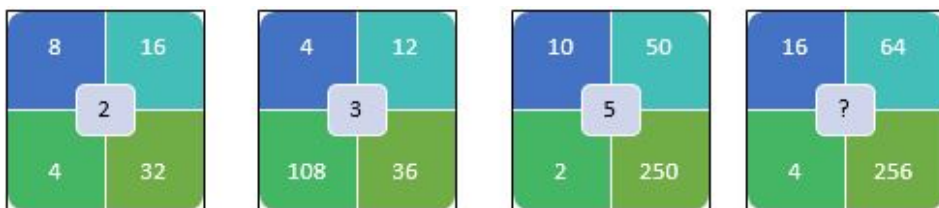
- 6
- 300
- 24
- 50

37. 34. If 2 means 5, 5 means 9, 9 means 18 and 18 means 23, then which is the prime factor of 25?

Mark only one oval.

- 2
- 5
- 9
- 23

38. 35 Find the missing number in the given pattern.



Mark only one oval.

- 2
- 6
- 8
- 4

39. 36. One pen cost ₹18.50. Find the maximum number of pens Ayush can buy in ₹90

Mark only one oval.

- 5
- 4
- 6
- 3
- None of These

40. 37. In a certain language, ROAD is coded as URDG, how is SWAN coded in that code?

Mark only one oval.

- VXDQ
- VZDQ
- VZCP
- UXDQ

41. 38. Replace the question mark with the correct option:

20 16 12 ? 4

Mark only one oval.

- 10
- 20
- 18
- 8

42. 39. I am facing North. I turn right. Now what direction I am facing now?

Mark only one oval.

North

South

East

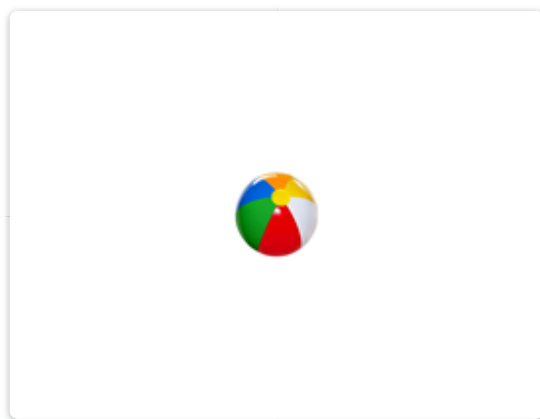
West

43. 40. Which ball is heavy:

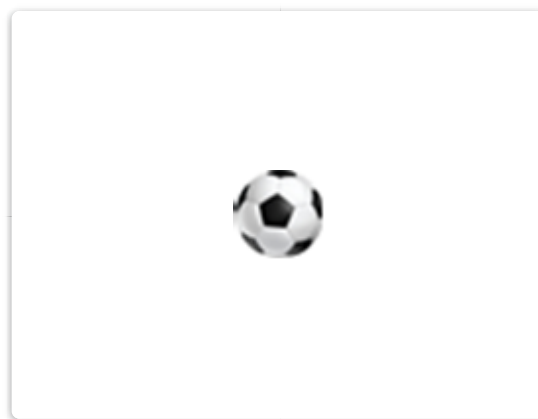
If  +  +  +  = 480 Grams

And  +  +  = 360 Grams.

Mark only one oval.



Option 1



Option 2

Both are of Equal Weight

Can't Say

Questions
from 41 to 50
are
interrelated
and are based
on the below
paragraph:

During a normal day Airport is open from 6:00 AM to 12:00 Midnight. 304 planes (each having a capacity of 250 passengers) taking off from the airport on daily basis but keeping Christmas in mind, Government has decided to open airport for 24 hours a day and 504 planes would be taking off on daily basis.

44. Q 41: During Christmas how many more planes will take off on daily basis?

Mark only one oval.

- 200
 2
 20
 48

45. Q 42: How many passengers depart from the airport every hour during the Christmas holidays, if no seat remains vacant?

Mark only one oval.

- 4750
 5250
 500
 126000

46. Q 43: Due to increase in number of planes, how many more passengers. can travel in a week?

Mark only one oval.

- 50000
 5000
 35000
 350000

47. Q 44: In every plane, there are 10 seats in one row. Total how many number of rows are there in a plane?

Mark only one oval.

10

20

25

50

48. Q 45: For every 100 people, 3 people gets late to airport. So during Christmas total how many people got late on daily basis.

Mark only one oval.

7200

1260

1512

3780

49. Q 46: One fifth of the passengers are non- vegetarian. Minimum how many number of veg meals will be required in a flight.

Mark only one oval.

25

50

100

200

50. Q 47: Each passenger can carry one bag of 5 Kg and another bag of 12Kg in the flight. What's the total max weight that can be carried by all passengers during a flight.

Mark only one oval.

1250 Kg

3000 Kg

4250 Kg

4150kg

51. Q 48: Each plane has one pilot, two co-pilots and for every 50 passengers there is one Air hostess. Total how many people are there in the plane.

Mark only one oval.

258

303

53

254

52. Q 49 On an average in a flight every fifth person is a child, then how many kids are traveling in a flight.

Mark only one oval.

5

200

50

150

53. Q 50: Each child gets one ice-cream during flight. During Christmas season, total how many more ice-creams will be required a day to meet the demand.

Mark only one oval.

- 50
- 200
- 1000
- 250

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