

NAB Competition 2020 - Teens

National Analytical Brains Competition 2020 for Teens (For Grade 07 or above)

* Required

1. Email address *

2. Registration Number *

3. Name *

Mathematical Ability

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

4. What is 9998×4997

Mark only one oval.

49860006

49864006

49960006

49730006

5. Find the third proportional to 9 and 12

Mark only one oval.

- 16
- 15
- 36
- 108

6. The H.C.F. and L.C.M. of two numbers are 21 and 4641 respectively. If one of the numbers lies between 200 and 300, then the two numbers are

Mark only one oval.

- 273, 363
- 273, 359
- 273, 361
- 273, 357

7. Sum of $5\frac{1}{2}$ and $7\frac{5}{7}$

Mark only one oval.

- $12\frac{6}{9}$
- $12\frac{5}{14}$
- $13\frac{3}{14}$
- $13\frac{5}{14}$

8. What will be the remainder if I divide 121031 by 9

Mark only one oval.

4

1

7

8

9. _____ X 104 = 11856. What number will come in the blank space?

Mark only one oval.

94

84

104

114

10. I wish to tile a front path of my house measuring 3.44 m by 1.04 m. The tiles are 8 cm squares. How many tiles are required?

Mark only one oval.

4472

559

44.72

55.9

11. The unit digit in $(284 \times 378 \times 617 \times 803)$ is:

Mark only one oval.

2

3

4

9

12. The first prime number is:

Mark only one oval.

1

0

2

3

13. Maximum how many pieces of 9.8 cm length can be cut from 1024 cm long rod.

Mark only one oval.

105

1050

1040

104

14. How many bricks will be needed to construct a wall of 4 m high, 3 m long and 9 cm wide. If the measurement of brick is 20cm X 12cm X 4.5 cm:

Mark only one oval.

- 500
- 1000
- 1500
- 2000

15. If $0.6 \times A = 0.09 \times B$, then A:B =

Mark only one oval.

- 2:3
- 1:15
- 20:3
- 3:20

16. $\frac{4}{7}$ of a certain number is 112. Find the half of the number.

Mark only one oval.

- 196
- 98
- 64
- 32

17. A reservoir water tank is 5 m long and 3 m broad. How much water will be required to raise the water level tank by 1 meter.

Mark only one oval.

- 125l
- 27 kl
- 15 l
- 15 kl

18. Which of the following is a pair of co-primes numbers:

Mark only one oval.

- 28, 35
- 18, 27
- 21, 32
- None of these

19. $2.89 \times 100 \times 100 \times 10 = ?$

Mark only one oval.

- 289000
- 28900000
- .000289
- 289

20.

The value of A and B in the given problem respectively are _____:

A. 4,7

B. 7,4

C. 5,6

D. 6.5

$$\begin{array}{r}
 23A \\
 + A3B \\
 \hline
 6B1 \\
 \hline
 \end{array}$$

Mark only one oval.

 A B C D21. $4 \times 0.4 \times 0.04 \times 0.004 \times 40$

Mark only one oval.

 0.0001024 0.001024 0.01024 0.1024

22. Instead of dividing ₹117 among P Q R in the ratio of $1/2 : 1/3 : 1/4$, by mistake it was divided in the ratio 2:3:4. Who gained in the transaction?

Mark only one oval.

 Only P Only Q Only R Both R & Q

23. $33 - (15 - 9 \div 3) =$

Mark only one oval.

31

21

3

9

Reasoning

24. What will be the next number in the given series: 9, 12, 11, 14, 13, ____, 15

Mark only one oval.

12

16

17

11

25. In a certain code, Ripple is written as 613382 and life is written is 8192. What will be the code for Piller?

Mark only one oval.

318826

38286

618823

328816

26. If + means \times , - means + and \times means \div , Find the value of $5+4-18 \times 3$

Mark only one oval.

-34

6

26

14

27. Find the odd one out:

Mark only one oval.

15

16

17

18

28. If C is equal to 3, $CEP = 24$, Then what will be the value of HUX

Mark only one oval.

53

51

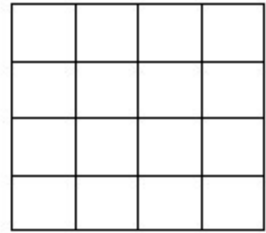
49

47

29.

How many squares are there in the following figure?

- A. 16
- B. 17
- C. 25
- D. 30



Mark only one oval.

- A
- B
- C
- D

30. Choose the alternative which closely resembles the mirror image of the given combination

MALAYALAM
(A) MALAYALAM (B) MAJAYAJAM (C) MALAYALAM (D) MAGAYAGAM

Mark only one oval.

- A
- B
- C
- D

31. Rohit walked 40 meters towards North, took a left turn and walked 20 meters. He again took a left turn and walked 40 meters. In which direction he is from the starting point.

Mark only one oval.

- EAST
- WEST
- NORTH
- SOUTH

32. A meaningful word starting with A is made from the first, the second, the fourth, the fifth and the sixth letters of the word CONTRACT. Which of the following is the middle letter of that word.

Mark only one oval.

- C
- O
- R
- T

33. How many 4's are there preceded by 7 but not followed by 3?

5 9 3 2 1 7 4 2 6 9 7 4 6 1 3 2 8 7 4 1 3 8 3 2 5 6 7 4 3 9 5 8 2 0 1 8 7 4 6 3

Mark only one oval.

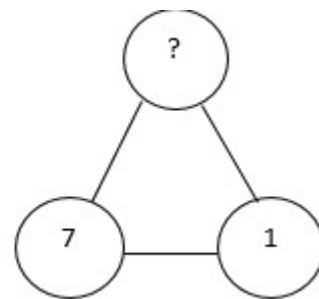
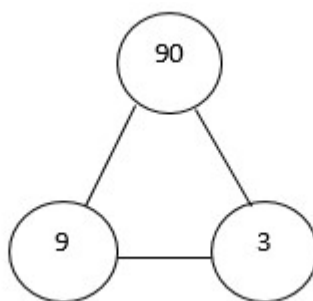
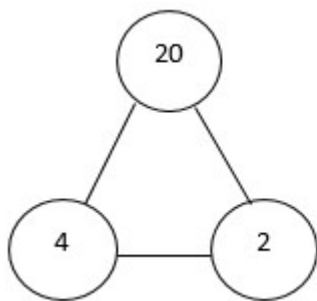
- Three
- Four
- Five
- Six

34. If you write down all the numbers from 1 to 100 then how many times do you write 4. ?

Mark only one oval.

- 11
 18
 20
 21

35. Find the missing number:



Mark only one oval.

- 20
 50
 160
 120

36. If X is brother of son of Y's son, then how is X related to Y?

Mark only one oval.

- Brother
 Cousin
 Grandson
 Son

37. Arrange the following words in the order they appear in the English Dictionary:

1. Reprint 2. Reptile 3. Repent 4. Report

Mark only one oval.

- 3,1,2,4
- 3,2,1,4
- 1,4,3,2
- None of the Above

38. Sam ranks 18th in class of 49 students. What is his rank from the last?

Mark only one oval.

- 31
- 32
- 18
- 19

39. Find the missing term:

A, CD, GHI, ? , UVWXY

Mark only one oval.

- LMNO
- MNO
- MNOP
- NOPQ

40. Find the missing term:

4, 9, 25, ?, 121, 169, 289

Mark only one oval.

49

64

81

87

41. A number is greater than 3 but less than 8. Also it is greater than 6 but less than 10. The number is:

Mark only one oval.

5

6

7

9

42. If day before yesterday was Thursday, when will be Sunday?

Mark only one oval.

Today

Two days after today

Tomorrow

Day after tomorrow

43. Find the missing Number:

- A. 6
- B. 7
- C. 8
- D. 9

3	6	8
5	8	4
4	7	?

Mark only one oval.

- A
- B
- C
- D

Real Time Problems

Read the following information and Next five questions are based on below information :

Alka is older than Mala. Gopal is older than Mala but younger than Alka. Kapil is younger than Ram and Mala. Mala is older than Ram

44. 1. Whose age is between Gopal and Ram?

Mark only one oval.

- Mala
- Kapil
- Alka
- None of These

45. 2. Whose age is between Mala and Kapil

Mark only one oval.

- Gopal
- Ram
- Alka
- None of These

46. 3. Whose age is exactly in middle of all the five?

Mark only one oval.

- Mala
- Gopal
- Ram
- Alka

47. 4. Who is the oldest?

Mark only one oval.

- Alka
- Mala
- Kapil
- Gopal

48. 5. Who is the youngest?

Mark only one oval.

Mala

Ram

Alka

Kapil

49. I have three pieces of wood having length 42 m, 49m and 63m. I am looking to cut all the pieces into small planks of longest possible length so that my wood is not wasted. So what should be the length of each piece.

Mark only one oval.

7m

14m

21m

42m

50. In my class ratio of boys to girls is 3:2. 6 more girls joins my class and now the ratio becomes 6:5. Can you tell me how many boys are there in my class?

Mark only one oval.

24

30

42

None of these

51. If I cover 5Km in 20 minutes. It takes me 50 minutes to reach my school. Can you tell me how far my school is?

Mark only one oval.

- 10.5km
- 12 km
- 12.5km
- 13.5 km

52. I need to get painted a wall which is 8 m by 2.5 meter. Painter is asking me that he will take 25 paise per square cm to paint the wall. How much it will cost me.

Mark only one oval.

- ₹500
- ₹5000
- ₹50000
- None of these

53. We want to increase the area of playground. We decided to increase the length and breadth of the playground to the ratio 3:4 and 4:5 respectively. Now can you tell me what will be the ratio of the area of old playground to the new playground?

Mark only one oval.

- 1:3
- 3:5
- 2:5
- None of these

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