



National Analytical Brains Competition 2020

NAB Competition 2020 - Grade 03

Mathematical Ability

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

1. Pawan has a wonderful machine if you put any number in it, machine first subtracts the number by 3 and then adds 2. If I put 18 then what is the result?

- 23
- 17
- 16
- None of these

2. Which equation satisfies the order (commutative) property of multiplication?

- $65 \times 1 = 1 \times 65$
- $(65 \times 1) + (65 \times 5) = 65 \times (1 + 5)$
- $65 \times 1 = 65$
- $(65 \times 1) \times 5 = 65 \times (1 \times 5)$

3. The sum of two numbers is 1000. One of the numbers is 326. Find the 2nd number.

- 1326
- 674
- 626
- None of these



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4. What is the difference between the place value of 3 and 5 in the number 3057?

- 250
- 2950
- 990
- None of these

5. Find the number which is divided by 2 gives 1 as remainder and 4 as the quotient?

- 8
- 6
- 9
- None of these

6. Raju, Sonu and Monu collect 456, 450, 323 stones respectively, Monu gives 45 stones to Sonu and Sonu gives 78 stones to Raju. Now total number of stones are

- 1229
- 1106
- 1129
- None of these



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7. Aayasha works for continuous 4 hours on her school assignment. If she started working at half past 2, when did she finish her assignment?

- Quarter to 7
- Half Past 5
- Quarter to 6
- Half past 6

8. What must be added to 6 tens to make 10 tens?

- 16
- 4
- 40
- None of these

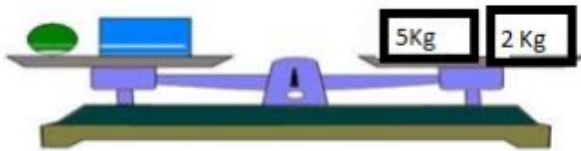
9. Find the value of $198 + 14$ tens ?

- 238
- 212
- 338
- None of these



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10.



In the given picture, the weight of  is 2 kg 500 g. What is the weight

of  ?

- 7 kg, 500g
- 9kg, 500g
- 4kg, 500g
- 1kg

11. 16 children were riding in the bus. At the bus stop, some more children got into the bus. Then there were 28 children altogether in the bus. How many children got into the bus at the bus stop?

- 12
- 44
- 11
- None of these

12. Salma earned ₹ 9000 in a month and spent ₹ 5496. Find her savings?

- 4504
- 4514
- 3504
- None of these



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13. Reena has 32 socks which she puts into pairs. How many pairs of socks she make?

- 64
- 16
- 32
- None of these

14. If the cost of 4 pens is ₹ 20 then what is the cost of 10 pens?

- 34
- 90
- 50
- None of these



15. Romy has 750 m 80cm of wire. She used 505 m 40cm of wire for fencing. How much wire is left with her?

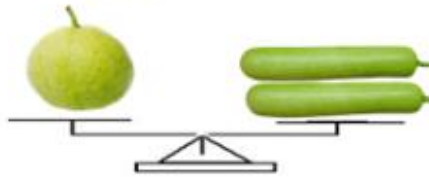
- 245 m 40 cm
- 255 m 40 cm
- 255m 80 cm
- None of these



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16.

If the weight of  is 500 grams, find the weight of 

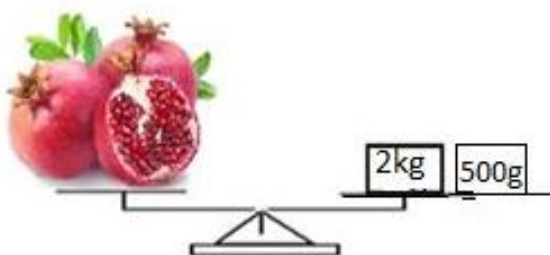


- 500g
- 1000g
- 350g
- 250g

17. How many minutes does the minute hand take to move from 6 to 12 ?

- 30 minutes
- 20 minutes
- 25 minutes
- 35 minutes

16. What is the weight of one pomegranate





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2 kg 500g

1 kg

500g

250g

19. Sarla went to resort by bus and it took 2 hours 30 min. Pushpa went to resort by car and it took 120 min to reach. How much less time did Pushpa take to reach the resort?

20 min

30 min

35 min

40 min

20. How many minutes should be added to the time shown by the clock to make it quarter to 6?



30 min

15 min

20 min

25 min



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Logical Reasoning Ability

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

21. Find the odd one out:



A



B



C



D

- A
- B
- C
- D

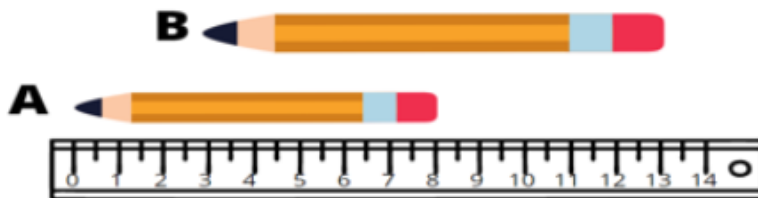
22. If "Grape" is called "banana", "banana" is called "watermelon", "watermelon" is called "radish", then which fruit is of yellow color?

- Grape
- banana
- watermelon
- radish



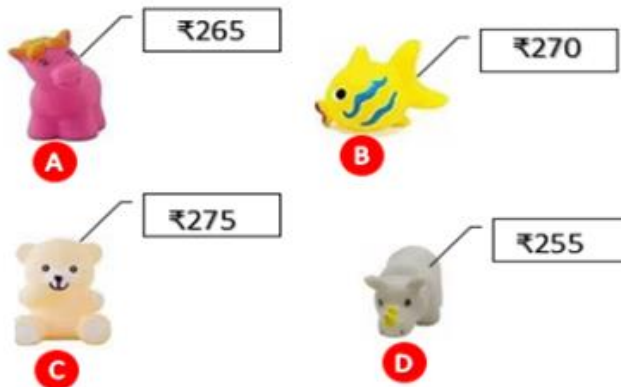
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23. On the scale shown below, pencil B is how much longer than pencil A?



- 2
- 3
- 4
- 5

24. Which of the following toy has price equal to below money?



- A
- B
- C
- D



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25. Based on the below info can you tell who is the tallest child.



- 1) Amit is taller than Aneesh
- 2) Parul is not taller than Aneesh
- 3) Radhika and Aneesh are of equal height

- Amit
- Radhika
- Aneesh
- Parul

26. In the given series what will come in the "?".



- 36
- 24
- 32
- 30
- None of these



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27. Out of the below four options which one fits in the series:

ACB GIH LNM XZY

- RTU
- RTS
- SRT
- SWV

28. In a certain code language, the letters are coded as shown here. The code for CYCLE would be:

C	Y	I	E	T	L	R	O	M	N
%	@	!	&	[]	?	<	>	{

- %@%&
- %@%?&
- %@%]&
- %@%@&

29. Replace the question mark with the correct option:

5 8 11 14 ?

- 18
- 16
- 17
- 20

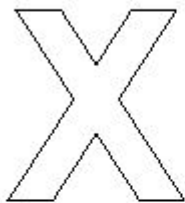


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30. Find the odd one out:

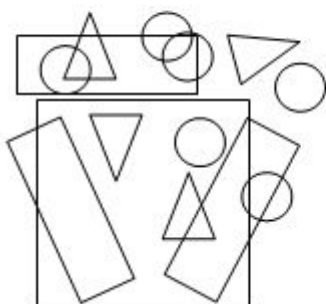
- Foot Ball
- Basket Ball
- Volley Ball
- Swimming

31. How many lines are there in the below figure:



- 10
- 14
- 12
- 8

32. Count the total number of shapes on the below figure:

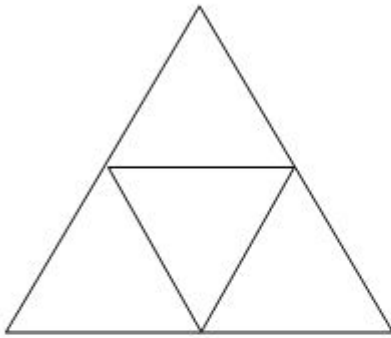




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- 13
- 14
- 15
- 12

33. How many Triangles are there in the below figure:



- 4
- 6
- 5
- 8
- 3



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34. Which rabbit is at the third position?



- P
- C
- Z
- S

35. How many balls will be there in PATTERN 4?



- 16
- 25
- 8
- 12



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36. In a certain code language 'RAT' is written as 'SBU'. How will 'DOG' be written in that code?

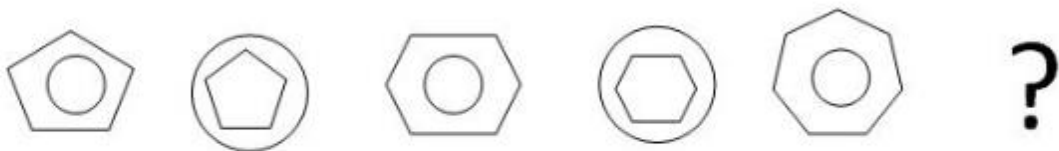
- EQH
- EPH
- CQF
- HPE

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



- F
- 10
- 9
- G

38. Which is the next figure?



- A
- B
- C
- D



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- A
- B
- C
- D

39. How many groups of 3 butterflies can be formed from given butterflies?



- 5
- 4
- 6
- 7

40. Which of the following eggs is the heaviest?



- Yellow Egg
- Blue Egg
- Pink Egg
- Cannot Say



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Real Life Problems

The Cricket Match

Questions from 41 to 50 are interrelated.

41. Garvit goes to watch World Cup at Narendra Modi Stadium. He sets off from home at 2:00PM and arrives at Stadium at 2:30 PM. How long does it take him to get there?

- 35 minutes
- 30 minutes
- 1 hours
- 55 minutes

42. He travels in a bus that is exactly half full. The number allowed in a full bus is 54. How many were persons were in the bus?

- 27
- 54
- 108
- 50

43. Outside stadium he joins the other cricket fans supporting India. He pays ₹ 42 as a junior. A senior has to pay two times this to get in. How much does a senior pay?

- ₹ 42
- ₹ 21
- ₹ 84
- ₹ 44



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44. He goes to the stadium shop. He buys a magazine (₹ 16), a new cap (₹22) and the India flag (₹15). How much more does he need to add onto his ₹50 to pay for his things?

- ₹ 53
- ₹103
- ₹50
- ₹3

45. Garvit is hungry. He only has ₹ 20 left. What two items could he buy? Hot Dog ₹17, Soup ₹16, Samosa ₹12, Fish cutlet ₹ 15 and Tea ₹6.

- Hot dog & Tea
- Samosa & Soup
- Samosa & Tea
- Fish Cutlet & Tea

46. Currently England is at 3rd position. Pakistan is five places below them. Where is Pakistan in the world cup?

- 7
- 8
- 9
- 5



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47. Indians have made 219 runs, but to win match they need 43 more run. What is the run score of another team?

- 262
- 261
- 263
- None of these

48. Garvit finds himself in a long queue for the bus to home. There are 7 people in front of him and 5 people behind him. How many people are waiting for a bus?

- 12
- 11
- 13
- 14

49. The bus already have 24 people and all the persons standing in the queue gets in to the bus then how many people are there in the bus ?

- 36
- 38
- 37
- 35



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50. Garvit arrives home at 9:30 PM. How long has he been out of the house?

- 7 hrs
- 8 hrs
- 7 hrs 30 minutes
- 6 hrs 30 minutes