



National Analytical Brains Competition 2020

NAB Competition 2020 - Grade 04

Mathematical Ability

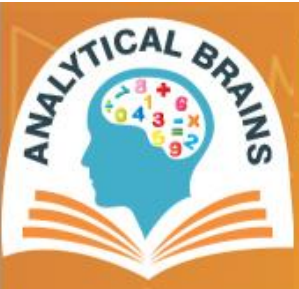
All questions are mandatory. Please note there is no negative marking:

1. Divide 2007 pencils into packs of 3. How many pencils are there in one packets ?

- 667
- 669
- 559
- None of these

2. Rahul has a wonderful machine if you put any number in it, machine first divide the number by 3 and subtract by 2 and finally add 4. If I put 18 then what is the result?

- 8
- 6
- 18
- None of these



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3. If the cost of 5 spoons is ₹ 20 then what is the cost of 20 spoons ?

- ₹ 100
- ₹ 60
- ₹ 80
- None of these

4. Mohini bought one and half dozen toffees on her birthday. She distributed 15 toffees among her friends. How many toffees are left with her?

- 2
- 1
- 3
- None of these

5. Find the number which when divided by 6 gives 4 as remainder and 4 as the quotient?

- 28
- 22
- 23
- None of these

6. In one year a furniture manufacturer sold 1112 dining tables at ₹ 1007 each. How much money did he receive for this sale?

- 1119784
- 1116884
- 1118284
- None of these



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

- $56 \times 1 = 1 \times 56$
- $(56 \times 1) + (56 \times 5) = 56 \times (1 + 5)$
- $56 \times 1 = 56$
- $(56 \times 1) \times 5 = 56 \times (1 \times 5)$

8. If the cost of onions is ₹ 25 per kg. And cost of potatoes is ₹ 12 per kg. What is the cost of 5 kg onions and 2 kg of potatoes?

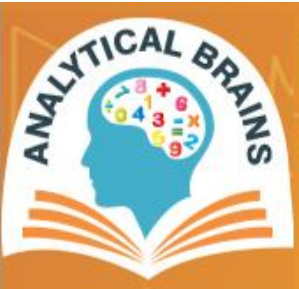
- ₹ 129
- ₹ 42
- ₹ 37
- ₹ 149

9. The sum of two numbers is 945. One of the numbers is 326. Find the 2nd number.

- 1271
- 619
- 614
- None of these

10. Subtract the number of weeks in a year from the number of days of a leap year.

- 385
- 358
- 314
- None of these



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

- 250
- 2950
- 990
- None of these

12. Raju, Sonu and Monu collect 2456, 450, 5023 stones respectively , Monu gives 45 stones to Sonu and Sonu gives 78 stones to Raju. Now total number of stones are:

- 7829
- 7929
- 7925
- None of these

13. Lubhansh bought 100 cups, 10 plates, and 100 spoons from the store. The cups cost ₹ 0.50 a piece. The plates cost ₹ 2.5 a piece. The spoons cost ₹ 0.50 a piece. If he already paid ₹ 100, how much more money does he need to pay?

- 15
- 25
- 5
- None of these



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14. Shiv thinks of a number. After adding 25 to it, he gets 1225. What is the number?

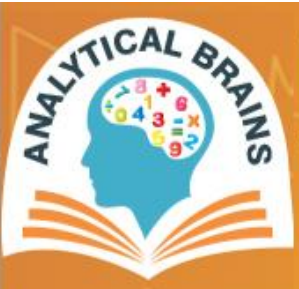
- 1275
- 1250
- 1200
- None of these

15. Ravi's first day of job is on 4th may. Rahul started his job 7 days before Ravi. Rahul started his job on

- 31st April
- 1st may
- 27th April
- 29th April

16. The minute hand takes _____ rotations to move hour hand from 2 o'clock to 8 o'clock?

- 12
- 4
- 10
- 6



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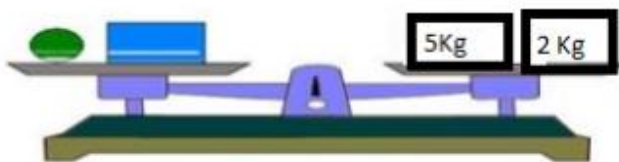
17. A bus started from Delhi at 0900 hours and reached Haridwar at 1235 hours. How much time did the bus take to reach Haridwar?

- 2 hours 35 min
- 3 hours 16 min
- 3 hours 35 min
- 2 hours 30 min

18. Rajkumari has 750 m 80 cm of wire. She used 505 m 99 cm of wire for fencing. How much wire is left with her?

- 241 m 19 cm
- 245 m 81 cm
- 244 m 19 cm
- 244 m 81 cm

19.



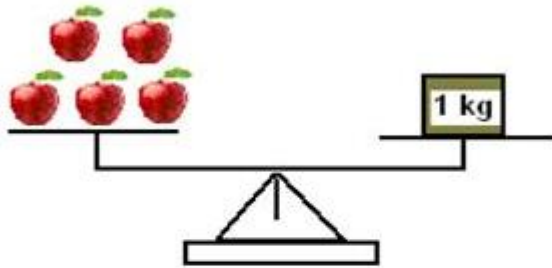
In the given picture, the weight of  is 2 kg 500 g. What is the weight of  ?



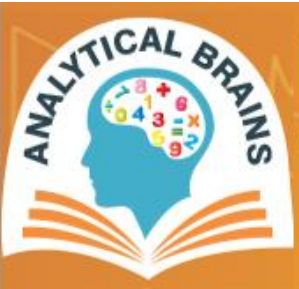
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- 4 kg, 500g
- 3kg, 500g
- 5kg, 100g
- 5kg

20. The weight of an apple is



- 500g
- 900g
- 100g
- 200 g



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Logical Reasoning Ability

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

Q 21: Find the odd one out:



A



B



C



D

A

B

C

D

Q 22: The below money is equal to:



₹ 54 + ₹ 100 + ₹ 111 + ₹ 20

₹ 34 + ₹ 108 + ₹ 111 + ₹ 12

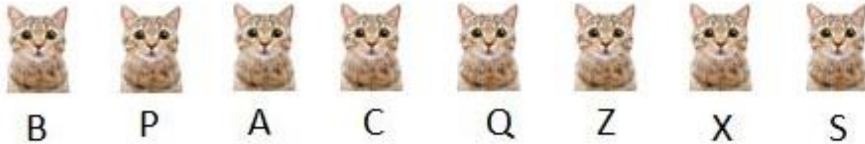
₹ 75 + ₹ 75 + ₹ 104 + ₹ 16

₹ 86 + ₹ 14 + ₹ 130 + ₹ 45



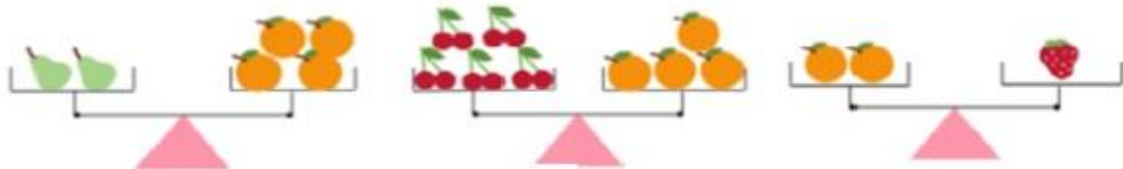
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Q 23: Cat_____ is fourth from the right end.



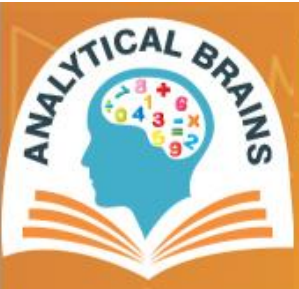
- c
- q
- z
- a

Q 24: If



How Many  is / are equal to one  ?

- 1
- 2
- 3
- 4



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Q 25: Which one of the following is the water image of the given figure?

HOME

EMOH
HOME

A

HOWE
EMOH

B

HOME
EMOH

C

HOME
EMOH

D

- A
- B
- C
- D

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



- 18
- 24
- 36
- 30
- None of these



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

ACB GIH LNM XZY

- RTU
- RTS
- SRT
- SWV

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

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

- %@%{<&
- %@%?<{&
- %@%]<{&
- %@%]>&

Q 29: Which one of the following is the mirror image of the given word?

MATH

HTAM

WATH

MATH

MATH

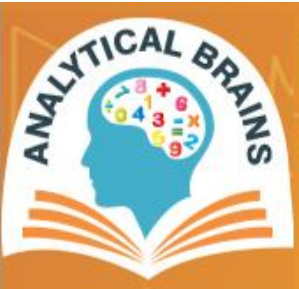
A

B

C

D

- A
- B
- C
- D



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Q 30: Replace the question mark with the correct option:

5 11 17 23 ?

- 28
- 29
- 31
- 27

Q 31: If in a certain code, 'HOME' is written as 'EMOH', then how will 'SLEEP' be written in that code?

- PELES
- PEESL
- PEELS
- EEPLS

Q 32: Find the odd one out:

- Foot Ball
- Basket Ball
- Volley Ball
- Swimming



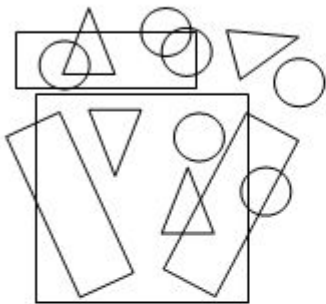
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Q 33: How many lines are there in the below figure:

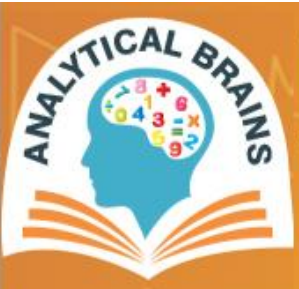


- 10
- 8
- 12
- 9

Q 34: Which shape is appearing maximum number of times:



- Square
- Rectangle
- Circle
- Triangle



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Q 35: How many squares are there in the below figure:



- 4
- 6
- 5
- 8
- 3

Q 36: Which rabbit will be third last to finish the race?



- P
- C
- Z
- S



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Q 37: If "brown" is called "blue", "blue" is called "white", "white" is called "yellow", then color of "SKY" is ____?

- Brown
- Blue
- White
- Yellow

Q 38: Mohit is heavier than Sukoon. Rita is lighter than Anita. Sukoon is heavier than Anita. Who is the lightest?



Mohit



Sukoon

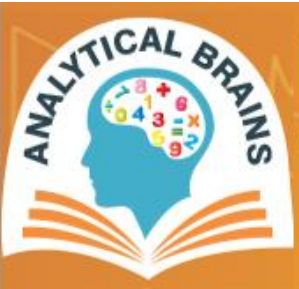


Rita



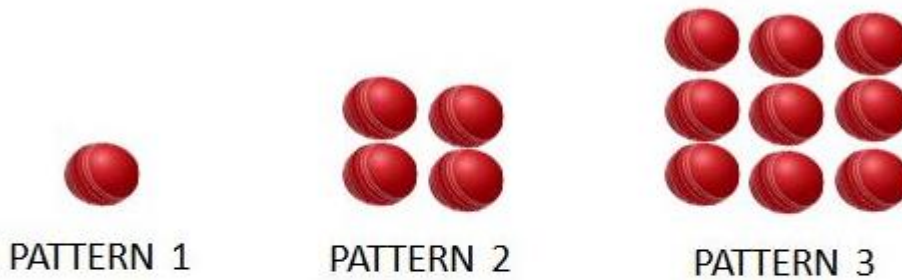
Anita

- Mohit
- Sukoon
- Rita
- Anita



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Q 39: How many balls will be there in PATTERN 5?



- 16
- 25
- 8
- 12

Q 40: If the total weight of the ice-cream cups shown below is 480 grams, then the weight of 4 such ice-cream cups will be ___?



- 240 g
- 280 g
- 360g
- 320 g



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Real Life Problems

Questions from 41 to 46 are co-related:

Below are the some of the events which were done by Rahim on a particular day. Please help me in finding the best possible choice to complete the sentences:

Q 41: At 7:00 am – Rahim had a bath in 10 _____ of water.

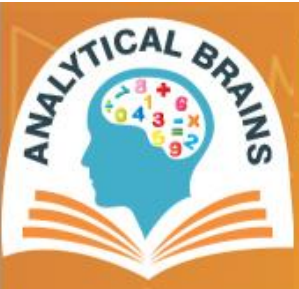
- Seconds
- Litres
- Meters
- All options are correct

Q 42: At 7.30 am - For breakfast Rahim had 100 _____ of cereal.

- Kilograms
- Litres
- Grams
- All options are correct

Q 43: At 8.10 am - He had to run for the bus today. The bus stop is 100 _____ away from his house.

- Metres
- Kilometres
- Centimetres
- Millimetres



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Q 44: At 11.00 am - During break he shared out a LITRE bottle of lemonade, between his five friends equally. They each had 200 _____ of lemonade, to drink.

- Litres
- Millilitres
- Kilolitres
- Centimetres

Q 45: At 7.30 pm – He saw that the road outside his house was looking like a river! He saw that main water pipe had burst and there are _____ of water gushing down the road.

- Millilitres
- Yards
- Gallons
- Kilograms

Q 46: At 7.45 pm – He planned to watch a film on TV. It was $1\frac{1}{2}$ _____ long.

- Minutes
- Hours
- Seconds
- Metres



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Q 47: A teacher wants to give 30 students some books. How many books does the teacher need so that at least one student will get two books?

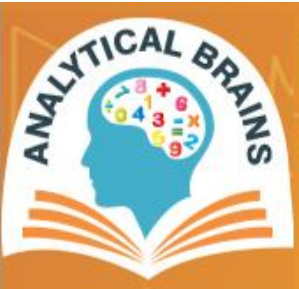
- 31
- 60
- 30
- 62

Q 48: You are asked to arrange 5 matchsticks in a line on a table. Every two matchsticks are 10 cm apart. How far is the 5th match stick from the first one?

- 50
- 60
- 40
- Cannot Say

Q 49: You ranked at 7th position from the top in your class of 25 students. What will be your rank from the bottom?

- 18
- 19
- 20
- 17



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Q 50: In how many different ways you can arrange 24 glasses on a kitchen shelf?
Choose the best answer.

- 4 ways (All 24 glasses in 1 row. 2 rows of 12 glasses each. 3 rows of 8 glasses each. 4 rows of 6 glasses each.)
- 3 ways (All glasses in 1 row. 2 rows of 12 glasses each. 3 rows of 8 glasses each.)
- 2 ways (All glasses in 1 row. 3 rows of 8 glasses each. 4 rows of 6 glasses each.)
- 1 way (All glasses in 1 row.)