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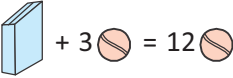
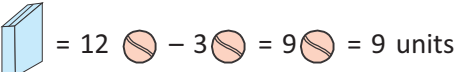
**NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION**

**Paper Code: UN 415**

**Solutions for Class : 1**

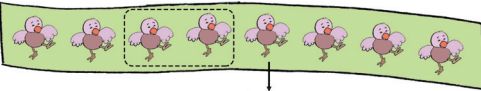
**Mathematics**

1. (C)  $87 = 8 \text{ tens } 7 \text{ ones } (8 > 7)$   
 $99 = 9 \text{ tens } 9 \text{ ones } (9 = 9)$   
 $98 = 9 \text{ tens } 8 \text{ ones } (9 > 8)$   
 $89 = 8 \text{ tens } 9 \text{ ones } (8 < 9)$   
 In 87 and 98 number of tens is more than ones. But as one of the number should be 9, 98 is the correct answer.

2. (B)   $+ 3 \text{ } \bigcirc = 12 \text{ } \bigcirc$   
  $= 12 \text{ } \bigcirc - 3 \text{ } \bigcirc = 9 \text{ } \bigcirc = 9 \text{ units}$

$\therefore$  The mass of the parcel 9 units.

3. (C) The clock given in option(C) shows 12 o'clock (i.e.,) noon.


4. (A)   
 5<sup>th</sup> chick

$\therefore$  Two chicks are hidden due to the folding of the ribbon.

5. (B)  $50 + 50 = 100$   
 Hence, the two lamps that have a total of 100 are given in option (B).

6. (A) Length of the pen = 7 units  
 Length of the pencil = 6 units  
 Difference of their lengths =  $7 - 6 = 1$  unit  
 $\therefore$  The pen is 1 unit longer than the pencil.

7. (A) The correct time shown in the picture is 9 o'clock.

8. (C)   
 1<sup>st</sup>      2<sup>nd</sup>      3<sup>rd</sup>      4<sup>th</sup>

$\therefore$  Runner K can be labelled as 3<sup>rd</sup>.

9. (C) One of the dice landed on 5. As she threw number 8; the other dice should be landed on number 3.

$\therefore$  The required number is 3.

10. (A) Time shown on the given clock = 2:30  
 Given it is 1 hour fast.

The actual time is 1 hour before 2:30 (i.e., 1:30).

1:30 is also known as half past one.

11. (B,C) From the figure in option (A) it is clear

that mass   $<$  

From the figure in option (B) it is clear

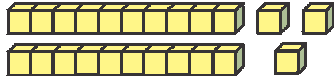
that mass   $<$  

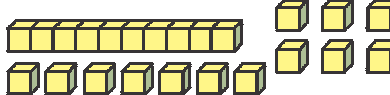
From the figure in option (C) it is clear

that mass   $<$  

From the figure in option (D) it is clear

that mass   $>$  

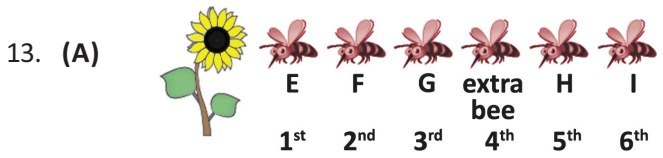
12. (B)   
 $= 2 \text{ tens } 3 \text{ ones} = 20 + 3 = 23$



$= 1 \text{ ten } 13 \text{ one}$

$= 10 + 13 = 23$

$\therefore$  The option (B) is the another way to show the given number.



∴ The ordinal number of Bee H from the flower is 5<sup>th</sup>.

14. (B) 22 23 24 25 26 27 28 29 30 31 32  
33 34 35 36 37 38

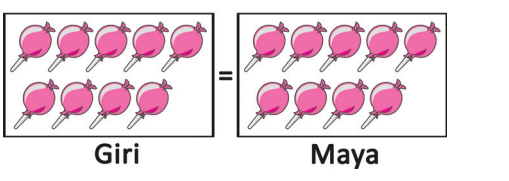
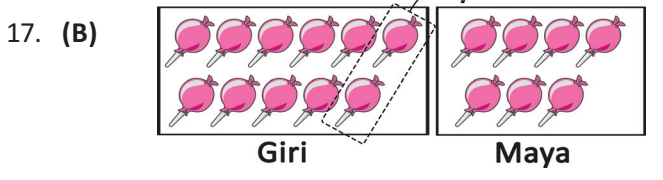
∴ There are 17 numbers from 22 to 38.

15. (A)  $23 < 43 < 53 < 63$   
 $35 < 48 > 38 > 32$   
 $77 > 63 < 84 > 92$   
 $52 < 45 > 48 > 51$

∴ The numbers 23, 43, 53, 63 are in the correct ascending order.

16. (B) Total number of pupil = Number of boys + Number of girls  
= 7 + 9  
= 16

Number of pupil passed maths test = 13  
∴ Number of pupil failed = 16 – 13 = 3



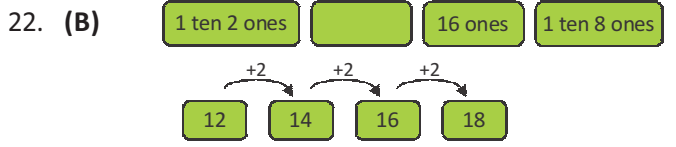
∴ Giri should give 2 lollipops to Maya so that both of them have the same number of lollipops.

18. (C)  $12 + 14 = 26$   
 $13 + 15 = 28$   
∴  $12 + 14 \neq 13 + 15$   
 $12 + 14 = 26$  ;  $20 + 14 = 24$   
∴  $12 + 14 \neq 20 + 4$   
 $12 + 14 = 26$  ;  $16 + 10 = 26$   
∴  $12 + 14 = 16 + 10$

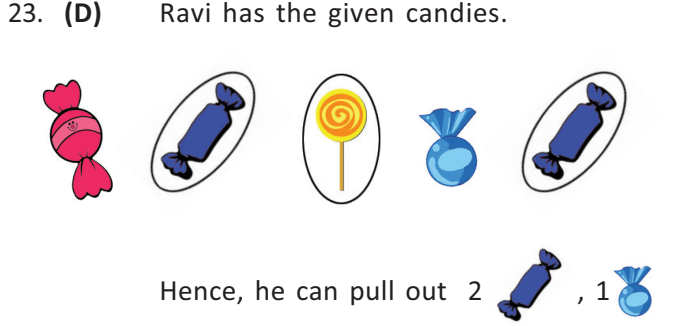
19. (C) Length of pencil P = 7 units  
Length of pencil Q = 9 units  
Length of pencil R = 5 units  
Length of pencil S = 8 units  
Difference in the length of R and S  
= 8 – 5 = 3 units  
∴ Pencil R is 3 units shorter than Pencil S.

20. (B) Number of motor cycles = 11  
Number of cars = 5  
Difference between their number  
= 11 – 5 = 6  
∴ There are 6 more motor cycles than the cars.

21. (C) 3 tens 3 ones = (3 x 10) + (3 x 1)  
= 30 + 3  
= 33  
∴ The number that comes just before 33 is 32.



∴ The missing number in the pattern is 14. (i.e. 1 ten 4 ones).



24. (A) 2 less than 15 = 15 – 2 = 13  
3 more than 10 = 10 + 3 = 13  
∴ 2 less than 15 = 3 more than 10.

25. (B) Hence, by following the given path you will reach the number 47.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

**General Science**

26. (C) In the given figure (R) fallen leaves and (S) Bench are not alive.
27. (A) Bean seeds are called pulses.
28. (B) An ant lives in the tunnel or holes in soil.
29. (B) A windmill, a boat and a kite need air to move.
30. (A) The given figure is that of a zebra crossing.
31. (C) When the moon is big and round it is called full moon.
32. (D) We hear songs with our ears
33. (B) Silk clothes are made from silk fibre obtained from silkworm.
34. (C) Nose helps us to smell things.
35. (A) The Sun rises in the east.
36. (B) We should not play with sharp objects like nails and screws.
37. (B) A mango is a fruit.
38. (A) The moon is much closer to the earth.
39. (D) Bread, milk and potato gives us energy to work and play.
40. (D) The Lion is a flesh eating animal, it kill other animals for their food.

