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NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION - 2013

SOLUTIONS FOR CLASS : 2

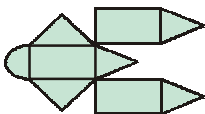
Mathematics

1. (A) $3 \times 10 = 30$
2. (D) From the table, $20 - 15 = 5$
and $43 - 21 = 22$.
So, $66 - 40 = 26$ is the missing number.
3. (C) The shape in option (C) must be put together with the shape S to make it a square.



4. (B) Anu has 13 stickers.
No. of stamps = No. of stickers + 4
 $= 13 + 4 = 17$
No. of beads = No. of stamps + 3
 $= 17 + 3 = 20$
 \therefore Anu has 20 beads.
5. (A) $\text{₹ } 18 < \text{₹ } 20 < \text{₹ } 25 < \text{₹ } 30$
So, toy train is the cheapest.
6. (D) The total cost of the items that Harish bought = $\text{₹ } (12 + 15 + 3) = \text{₹ } 30$
 \therefore The change that Harish should get
 $= \text{₹ } (50 - 30) = \text{₹ } 20$

7. (B) Vegetables can be measured in kilograms.
8. (A) The correct descending order of the given numbers is 874, 629, 437, 408, 293.



9. (D) The shape in option (D)
has 3 rectangles, 5 triangles, and a semicircle, but no squares.
10. (D) Number of frogs = 7
Number of birds = 5
Number of fishes = 4
Number of trees = 3
So, the trees are the least in number.

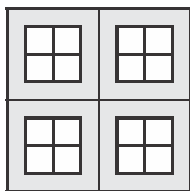
11. (A) Quantity of milk in a can = 15 litres
Quantity of milk in 10 cans = 15×10 litres
 $= 150$ litres
12. (B) Total number of birds = $5 \times 6 = 30$
Number of birds sold = $4 \times 3 = 12$
 \therefore Remaining number of birds
 $= 30 - 12 = 18$
Number of cages in which remaining birds are kept = 2
 \therefore Number of birds in each cage = $18 \div 2 = 9$
13. (D) The magic show started at 7 p.m and ended at 9.10 p.m \Rightarrow Duration of the show
 $= 2$ hours 10 minutes.
Duration of music program during the magic show = 20 minutes.
 \therefore Actual duration of the magic show
 $= 2$ hours 10 minutes – 20 minutes
 $= 1$ hour 50 minutes.
14. (C) As given in the clues, $9 = 6 + 3$
and $2 = 9 - 7$.

| H | T | O |
|---|---|---|
| 2 | 6 | 9 |

So, 269 is the required number.

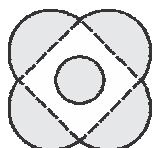
15. (B) The star has $\frac{1}{5}$ th part not shaded as 4 parts of it are shaded.
16. (A) 20 minutes faster at 2 \Rightarrow time on the watch is 2: 20, which is shown in option (A).
17. (C) A hundred ₹ 1 coins make ₹ 100.
And $100 = 5 \times 20$. So, twenty ₹ 5 coins make ₹ 100.
Therefore, twenty ₹ 5 coins together with a hundred ₹ 1 coins make ₹ 200.

18. (B) The number of elephants = 407
The number of giraffes is 164 less than that of elephants.
 \therefore Number of giraffes = $407 - 164 = 243$.
19. (C) $2983 - 231 = 2752$
 $4324 - 2752 = 1572$
 \therefore The required number is 1572.
20. (A) Number of small squares = 16



Number of squares with 4 squares = 5
Number of squares with small squares divided into 4 squares = 4
 \therefore Total number of squares = $16 + 5 + 4 = 25$

21. (C) Number of cakes Sunil had = 12
Number of cakes given to his friend = 4
 \therefore Remaining number of cakes = $12 - 4 = 8$
After Sunil ate some cakes, $\frac{1}{2}$ of the cakes were left i.e., $\frac{1}{2} \times 12 = 6$ were left.
 \therefore Number of cakes Sunil ate = $8 - 6 = 2$.
22. (B) $101 + 53 = 154$ and $143 + 25 = 168$. Similarly, $172 + 16 = 188$.
23. (A) The figure in option (A) has a circle, a square and 4 semicircles.



24. (D) From the given figures the weight of a watermelon is $4 \frac{1}{2}$ kg (shown on the scale)
 $= 4500$ g.
Mass of 3 papayas = Mass of 1 watermelon
 $= 4500$ g
 \therefore Mass of 1 papaya = $4500 \text{ g} \div 3 = 1500$ g
25. (C) The fifth figure is the same as the first and the sixth one is the same as the second. So, the missing figure in the given pattern is the same the first one which is in option (C).

General Science

26. (B) Birds build their nests on trees and animals live in the holes of trees.
27. (C) Woollen fibre is obtained from the fleece of the sheep.
28. (C) Mud houses are kutcha houses. The roof of a mud house is made of straw or palm leaves.
29. (D) Using a zebra crossing to cross a road is a safety rule.
30. (D) The movement of the earth around the sun is called revolution. The earth takes one year to revolve around the sun.
31. (C) Granite is a hard and rough rock, reddish or greyish in colour. It is used for making statues and buildings.
32. (D) Air fills the space inside the balloon, expands and takes the shape of the balloon.
33. (C) A weather cock (windvane) is used to know the direction of the wind.
34. (D) The shape of the earth is round.
35. (B) Zebra has stripes over its body. The alternating black and white bands found at road crossings resemble the pattern on its coat.
36. (D) A monkey lives on trees.
37. (D) The camel is called the "Ship of the desert". It is used for transportation in deserts.
38. (B) Coconut has fibrous body and a hard shell outside and a soft white structure called kernel or copra inside. We get oil from the inner structure copra.
39. (B) The given items are raincoat, umbrella and rain boots. These are used during the rainy season.
40. (B) The moon in the given figure is crescent shaped.
41. (C) The rat is a mammal. Mammals give birth to their young ones.
42. (B) The rabbit is a burrowing animal. It lives in burrows as shown in the figure.
43. (A) Cake is made of maida, fat and sugar substances and it is not good for health.
44. (C) Road side food which is not properly covered may have dust and germs. Eating road side food may cause diseases.
45. (C) Wind helps in moving a sail boat.
46. (D) Air has weight. The balloon filled with air is heavier than the flat one.
47. (A) The moon is a natural satellite of the earth. It is closer to the earth than the sun or any other star.
48. (D) Zebra crossing is a place where a set of lines are painted white and black on the road for safe crossing of pedestrians.
49. (C) The given figure shows that a chick grows into a hen. The young living things grow in size to become an adult.
50. (D) We get cooking oil from sunflower, groundnut and coconut.