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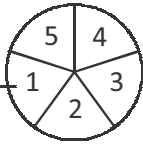
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NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

Paper Code: UN 415

Solutions for Class : 2

Mathematics

1. (A) Total number of toffees = 59
Number of friends = 4
Number of toffees each friend got = 10
 \therefore Number of toffees given to 4 friends = 4×10
= 40
Number of toffees eaten by Pinky = $59 - 40$
= 19
2. (B) $32 \times 5 = 160$
= $16 \times 10 = 16$ tens
 $\therefore 32 \times 5 = 16$ tens
3. (B) The weight of the bottle is equal to the weight of 6 balls.
Hence, it is evident that the bottle will be heavier than the weight of 5 balls.
4. (B) 60 tens = 60
7 hundreds = 700
 $60 < 700$
Hence, 60 tens is less than 7 hundreds.
5. (B) In figure P there are 3 straight lines.
In figure Q there are 2 straight lines.
In figure R there are 2 straight lines.
In figure S there are 5 straight lines.
Hence, figures P and S have more than 2 straight lines.
6. (C, D) 6×4 is 6 times 4 i.e., $4 + 4 + 4 + 4 + 4 + 4$ but since the question is like same answer than $6 + 6 + 6 + 6$ can also be correct.
7. (A) Number of toy cars Bhanu has = 25
Number of rows = 5
Number of toy cars in each row = $25 \div 5$
= 5
To have 8 such rows we need 8×5 toy cars.
No. of more toy cars needed to have 8 rows = $(8 \times 5) - 25$
= $40 - 25$
= 15
8. (D) Number of children who equally shared the books = 4 (including Fatima)
Total number of books = 32
Number of books each child got = $32 \div 4 = 8$
9. (B) 

fifth of the whole

Hence, we need 5 fifths to make 1 whole.

10. (B) Given,  +  = 200 and

$$\text{Ice cream bar} = 3 \times \text{Ice cream cone}$$

$$\Rightarrow \text{Ice cream cone} + 3 \text{ Ice cream cones} = 200$$

$$\Rightarrow 4 \text{ Ice cream cones} = 200$$

$$\therefore \text{Ice cream cone} = 200 \div 4 = 50$$

$$\text{Ice cream bar} = 3 \times 50 = 150$$

$$\therefore \text{Ice cream bar} - \text{Ice cream cone} = 150 - 50 = 100$$

Hence, the required difference is 100.

11. (D) Number of flowers in 1 pot = 4

Number of flowers in 5 pots = 4×5

\therefore There are 20 flowers in 5 pots.

12. (C) $6,487 = 6 \text{ thousands} + 4 \text{ hundreds} + 8 \text{ tens} + 7 \text{ ones}$.

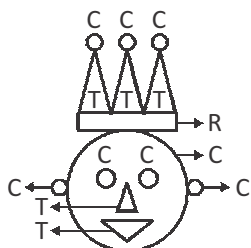
13. (D) $17 \times 5 = (10 + 7) \times 5$

$$= (10 \times 5) + (7 \times 5)$$

$$\therefore 17 \times 5 = (10 \times 5) + (7 \times 5)$$

Hence, the required value is 7.

14. (A) Let 'C' be circle, 'R' be rectangle, 'T' be triangle.



\therefore There are 8 circles, 1 Rectangle and 5 Triangles.

15. (A) Number of pencils Maria has = 20

Number of boxes = 2

Number of pencils in each box

$$= 20 \div 2$$

$$= 10$$

16. (A) 5 less than 116 = $116 - 5$

$$= 111$$

$$786 - 675 = 111$$

$$\therefore 786 - 675 = 5 \text{ less than } 116$$

Hence, the missing number in the box is 675.

17. (B) Length of tooth paste = 9 cm

Length of paperclip = 3 cm

Length of key = 5 cm

Total length of tooth paste, paperclip and key = $(9 + 3 + 5) \text{ cm}$

$$= 17 \text{ cm}$$

18. (C) Multiplication can be referred as repeated addition.

$$\Rightarrow 7 + 7 + 7 = 21 = 3 \times 7 \text{ or } 7 \times 3$$

19. (C) All the given ropes are longer than 2 cm.

20. (C) Mass of 1 packet of flour = 350 g

Mass of 1 packet of biscuits = 200 g

Mass of 4 packets of biscuits = $4 \times 200 \text{ g}$

$$= 800 \text{ g}$$

Difference between 4 packets of biscuits and 1 packet of flour = $(800 - 350) \text{ g} = 450 \text{ g}$

\therefore The mass of 1 packet of flour is 450 g less than 4 packets of biscuits.

21. (A) Number of story books Tina has = 36

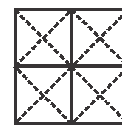
Number of books each shelves can hold = 9

Number of books shelves Tina need

$$= 36 \div 9$$

$$= 4$$

22. (C)



Fraction of square that is shaded = $\frac{8}{16}$

23. (D) 3 tens less than 895 = $895 - 30$
(3 tens = 30)
= 865

24. (C) $8 \times 2 = 16$
 $4 \times 8 = 32$

$$6 \times 3 = 18 \neq 9$$

$$10 \times 3 = 30$$

∴ The number bond given in option(C) is wrong.

25. (B) $\begin{array}{cccccccccc} & -5 & & -5 & & -5 & & -5 & & -5 & & -5 & & -5 & & -5 \\ & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright & & \curvearrowright \\ 65, & 60, & 55, & 50, & 45 & 40 & 35, & 30 & \boxed{25} \\ 1^{st} & 2^{nd} & 3^{rd} & 4^{th} & 5^{th} & 6^{th} & 7^{th} & 8^{th} & 9^{th} \end{array}$

Hence, the 9th number is 25.

General Science

26. (D) We eat the seeds of wheat. Wheat seeds are also called as grains or cereals.

27. (B) The house shown in the given figure is of igloo. Igloo's are made by using iceblocks.

28. (C) A sharpener is used to sharp a pencil. It is safe to sharpen a pencil.

29. (B) Tomato plant that is shown in option B is a herb.

30. (B) Rabbit live in burrows.

31. (D) To stay healthy we should eat cereals, pulses, fruits and vegetables.

32. (A) By boiling water changes to steam or water vapour.

33. (B) Coal is used in steam engines. It is burnt to produce energy.

34. (A) Shadows are formed when light is blocked by an object.

35. (B) Walking on a footpath is a safety rule on the road.

36. (A) The pencil lead is made of graphite.

37. (C) The gaseous from of water is water vapour.

38. (D) Animals that eat both plants and animals are called omnivores. Rat and bear are omnivores.

39. (A) Snake skin is used as leather to make belts and purses.

40. (C) In the given figure X is groundnut.

41. (B) We get wool from the fleece of sheep.

42. (C) Sugarcane belong to a grass family. We extract sweet juice from its stem.

43. (D) The heart is called pumping organ. It pumps blood to all parts of the body.

44. (A) A cow gives us milk.

45. (C) Big and tall plants are called trees. Trees live for hundreds of years.

46. (B) If all the conditions like air, water and soil are provided, a fallen seed can grow into a new plant.

47. (D) A parachute is a non-living thing. Non-living things does not breathe.

48. (D) Mango tree and tomato plant are flowering plants that prepare their own food and reproduce by seeds.

49. (A) Dogs have a good sense of smell. They sniff the smell and can identify hidden bombs, drugs and a thief in disguise.

50. (B) Gills are the respiratory organs in fishes.

