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NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION

Paper Code: UN439 (UPDATED)

Solutions for Class : 2

MATHEMATICS

1. **(B)** The hand takes eight minutes to go around the dial once for 16 min it takes 2 rounds and 2 min for each quarter turn.

   ∴ The hand will be at 2 after 18 min.

   Cost of calculator = 40.

2. **(B)** Calculator cost 4 times as much as a cheaper calculation.

   ∴ Cost of cheaper calculator $\frac{40}{4} = 10$.

3. **(B)** Option (B) is the missing firgure in the pattern

4. **(A)** Total number of chocolates = 18
   Total no of friends = 6 + 3 = 9

   $\frac{18}{9} = 2$

   ∴ 2 chocolates get each of them

5. **(C)** 4L + 5L + 6L = 15L

6. **(A)** Total fraction of the chocolate bar was eaten by the two children $= \frac{1}{6} + \frac{3}{6}$

   $= \frac{4}{6}$

7. **(B)** Parcel A = 150g

   Parcel B = 3 times parcel A

   = 3 x 150

   = 450g

   450 − 150 = 300g

   ∴ Parcel B is 300g heavier then parcel A.

8. **(B)** 2 + 4 = 6,

   10 − 2 = 8

   7 lies between 6 and 8

9. **(C)** Total distance travelled by veeru is (187 + 187 + 456) m

10. **(C)**
    $$\begin{array}{r} 5\ 9\ 0 \\ 3\ 7\ 2 \\ \hline 2\ 1\ 8 \end{array}$$

    ∴ A = 9 and B = 3

11. **(D)** 369 − 340 = 29

12. **(B)** 3 × 2 = 6

    24 ÷ 4 = 6

13. **(D)** $\frac{20}{5} = 4$

    ∴ each person gets 4 cakes

14. **(C)** Egg in each tray = 10

    Total number of eggs finished in 6 days = 6 x 5 = 30

    $\frac{30}{10} = 3$.

    ∴ Mr Nikhil buy 3 trays of egg.

15. **(A)** 4 + 4 + 4 = 12

    12 = 6 + 6

    ∴ Option A is correct

16. **(A)** Mrs Radha cut a cake into 8 pieces.

    → 2 pieces were eaten by her two childrens

    ∴ The fraction of the cake was left is $\frac{2}{8}$.

17. **(D)** 3 × 3 = 9 kg

18. **(D)** Total no of pupils in each

Class = 21 + 18 = 39

Total number of pupils in 5

Class = 39 × 5 = 195

19. **(C)** 21 − 19 = 2

25 − 21 = 4

∴ 25 + 6 = 31

39 − 31 = 8.

20. **(D)** Total slices of apple pie was eaten by Mrs kim and her daughter = 5.

Aple pie left = 1 slice

∴ 5 + 1 = 6.

Total number of slices = 6

∴ The fraction of apple pie was eaten is $\frac{5}{6}$.

21. **(C)** 940 is the same as 94 tens.

22. **(D)** Option D represents the shaded part $\frac{1}{3}$.

23. **(C)** 6000 + 400 + 80 + 7 = 6487.

24. **(C)** 500 g is equal to half kg

∴ 500 g and may half kg will keep both sides balanced on a simple balance.

25. **(C)** Option (C) satisfies the given clues.

GENERAL SCIENCE

26. **(D)** Watermelon grow on creepers.

27. **(C)** Plants and hen both are living thing.

28. **(B)** Clothes made of woollen fibre is suitable to worn during winter.

29. **(D)** Rice, wheat and maize are cereals.

30. **(C)** A, B and D are plants. Snake is an animal.

31. **(B)** During summer we wear cotton clothes and during winter season days are short and nights are long.

32. **(D)** A lotus plant has broad leaves.

33. **(C)** Water content in watermelon is maximum.

34. **(B)** Ginger is the stem part of the plant.

35. **(C)** In the given figure R is the leaf. Leaves make food for the plant.

36. **(A)** Dogs have a good sense of smell. It identifies hidden bombs and drugs by the sense of smell.

37. **(B,D)** The given organs are lungs. Lungs are the parts of respiratory system. It is also a part of excretory system as it helps in exchange of gases by taking in oxygen and giving out carbon dioxide.

38. **(D)** Bear is not used to carry our loads of goods and luggage.

39. **(D)** A cat is a living thing. Living things need food to eat.

40. **(C)** Broccoli is a flower part of the broccoli plant.

41. **(A)** Akhil is conserving water by turning off the tap while brushing.

42. **(D)** Rose plant need air, water and sunlight to make its food.

43. **(D)** The earth takes one year to revolve around the sun.

44. **(B)** Zebra's skin pattern is painted on roads for pedestrial crossing called as zebra crossing.

45. **(D)** House in option (D) is igloo. Igloos are houses found in very cold regions that is covered with snow.

46. **(B)** A fallen seed can grow into a new plant.

47. **(A)** The given experiment proves that air occupies space.

48. **(C)** In the given picture each egg stands for 5 eggs.

On monday No. of eggs collected = 6 × 5 = 30

Tuesday = 5 × 5 = 25

Wednesday = 3 × 5 = 15

Thursday = 8 × 5 = 40

Friday 6 × 5 = 30

40 − 15 = 25

On thursday 25 more eggs are collected then on wednesday.

49. **(A)** Frog can live both on land and in water. It hop and swim and have a moist skin.

50. **(B)** A sunflower of sun flower plant responds to the stimulus of the sunlight.