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NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION (UPDATED)

CLASS - 3
Question Paper Code : *UN470*

KEY

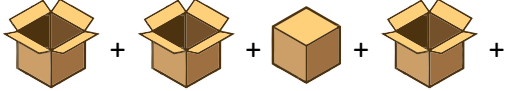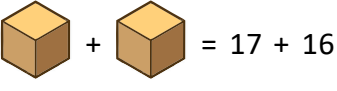|									
1. D	2. A	3. A	4. B	5. B	6. B	7. A	8. B	9. B	10. A
11. B	12. C	13. D	14. B	15. A	16. B	17. C	18. C	19. C	20. B
21. D	22. D	23. A	24. C	25. A	26. C	27. A	28. A	29. A	30. C
31. A	32. A	33. D	34. C	35. B	36. A	37. C	38. B	39. C	40. D
41. D	42. A	43. A	44. D	45. B	46. D	47. A	48. D	49. B	50. B
51. B	52. A	53. D	54. B	55. A	56. D	57. A	58. C	59. B	60. C

SOLUTIONS

#### MATHEMATICS

1. (D) Five thousand, nine hundred and seventy-nine = 5979

   (A) $5000 + 90 + 7 = 5097$

   (B) $5000 + 700 + 9 = 5709$

   (C) $5000 + 900 + 70 = 5970$

   (D) $5000 + 900 + 79 = 5979$

2. (A)

   $$\begin{array}{r} 7\ 8\ 0\ 6 \\ -\ 5\ 5\ 4\ 7 \\ \hline 2\ 2\ 5\ 9 \end{array}$$

3. (A) 8603

4. (B) The number must be divided exactly by 6 and 8

   Multiples of $6 \rightarrow$ 12, 18, 24, 30, 36
   Multiplies of $8 \rightarrow$ 16, 24, 32

5. (B) $4785 + 2902 = 7687$. 7 is thousands place

6. (B) $9 \times 43 = 387$

   $387 - 113 = 274$

7. (A) + + + +

$$\text{box} + \text{box} = 17 + 16$$

$$3\ \text{box} + 3\ \text{box} = 33$$

$$\text{box} + \text{box} = 33 \div 3 = 11$$

8. (B) Pole A = 83 cm + Pole B

Pole C = 2 Pole B

Pole C = 182 cm

Now Pole C = 182 cm

2 Pole B = 182 cm

Pole B = 182 cm ÷ 2 = 91 cm

Pole A = 83 cm + 91 cm = 174 cm

= 1 m 74 cm

9. (B) 3 × 2 = 6 (number of adults)

3 + 6 = 9

There were 9 people at the bus stop

10. (A) The capacity tells us how much liquid a container can hold. From the figure, we can see that the capacity is slightly more than 1 litre. Option (C) is the right choice
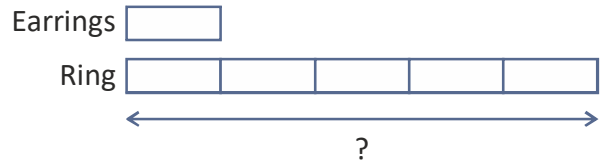
11. (B) 100 g + 250 g + 250 g + 500 g + 500 g = 1600 g

1600 g − 1300 g = 300 g

300 g ÷ 4 = 75 g

12. (C) ₹16.05 + ₹10.50 = ₹26.55

(total Rithu had)

₹26.55 − ₹3.20 = ₹23.35

13. (D) $\dfrac{3 \div 3}{9 \div 3} = \dfrac{1}{3}$

14. (B)

1 5 25 125 625

15. (A) Earrings

Earrings [ ]

Ring [ ][ ][ ][ ][ ]

?

Earrings :- 1 unit = ₹ 235

Ring :- 5 units = ₹ 235 × 5 = ₹ 1175

16. (B) 2 h 35 min = 60 min + 60 min + 35 min

= 155 min

17. (C)

 × 3 = 60

 = $\dfrac{60}{3}$ = 20

 ÷ 8 =

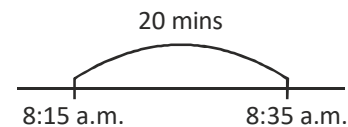 ÷ 8 = 20

 = 20 × 8 = 160

18. (C)
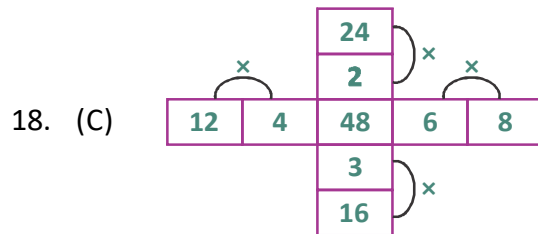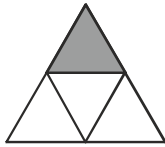

19. (C) Ali reached school at 8:35 a.m.

20 mins

8:15 a.m.   8:35 a.m.

20. (B) 2185 − 799 = 1386 is the number between 1000 and 1500.

21. (D) 5 groups of 4 = 5 × 4 = 20

1 ten 10 ones = 10 + 10 = 20

22. (D) In option (D) 4 parts divided equally

23. (A) The figure in option (A) is symmetrical about the dotted line as it divides the figure into 2 exact halves

24. (C) A cylinder has 3 faces, 2 flat and 1 curved

25. (A) $\dfrac{7}{10} - \dfrac{3}{10} = \dfrac{4}{10} = \dfrac{2}{5} = \dfrac{A}{B}$

So, A = 2 and B = 5

$\dfrac{4}{15} + \dfrac{7}{15} = \dfrac{11}{15} = \dfrac{C}{D}$

So, C = 11 and D = 15

(B − A) + (D − C)

= (5 − 2) + (15 − 11)

= 3 + 4 = 7

GENERAL SCIENCE

26. (C) Sun supplies the energy that drives the water cycle.

27. (A) The process 'X' is boiling.

28. (A) To keep the air clean, we should plant more trees.

29. (A) Part labelled P are leaves of papaya tree. Leaves make food for the plant.

30. (C) A group of stars is called constellation.

31. (A) Roughage is a dietary fibre, it does not contain any nutrients and hence does not provide any energy. Vitamins and minerals protect us from various diseases, while roughage does not.

32. (A) Fox is a carnivore that eats rabbit.

33. (D) Trees has a hard woody stem with bark.

34. (C) Leaves make food for the plant and helps in exchange of gases. Roots anchors the plant to the ground. Stem supports the plant.

35. (B) During growth animals increase in size.

36. (A) The next day, the ice cubes could become liquid and warmer.

37. (C) Green bean seedling get its food from seed leaves or cotyledons.

38. (B) Water vapour in air does not help in drying clothes faster.

39. (C) Roots absorb water from the soil.

40. (D) Ostrich lays the largest eggs in the world

41. (D) Earth take one year to make one revolution around the Sun.

42. (A) The habit of some birds to keep their eggs warm by sitting on them is known as hatching.

43. (A) Birds wings push against air. When they are flying

44. (D) Chicken is an omnivore that feed both on plants and animals.

45. (B) Dead leaves are decomposed to form as manure or humus.

46. (D) Symbol shown in option (D) indicates no entry.

47. (A) The rhino only eats plants.

48. (D) The traffic sign shown below indicate no parking.

49. (B) The spring scale is used to measure the rocks weight.

50. (B) The time between waking up and midday is called morning

51. (B) Water can exist on Earth in the solid (ice, snow, iceberg, etc), liquid (top water, rain water, seawater, etc) and gaseous states (water vapour and steam).

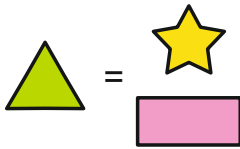52. (A) Grasshoppers and cockroaches breathe through their air holes.

53. (D) Children in option (D) crossing the road at zebra crossing are obeying safety rules.

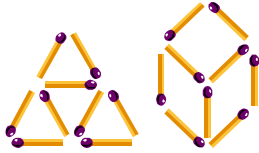54. (B) Heat changes solids to liquids and liquid to gases.

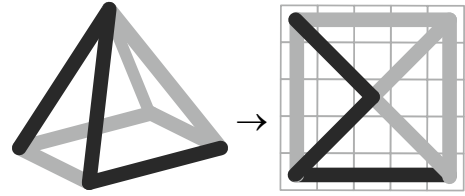55. (A) 'X' is seed.

CRITICAL THINKING

56. (D)

57. (A)

58. (C)

59. (B) Option (B) is the top view of the given question figure.

60. (C) Sum of ages of A, B and C is 6 + 7 + 8 = 21

━━━━━━━ *The End* ━━━━━━━