

UNIFIED COUNCIL

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UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD (UPDATED)

CLASS - 3

Question Paper Code: UM9009

KEY

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

EXPLANATIONS

MATHEMATICS

- 1. **(A)** When white part of the traffic cone is removed and laid flat is
- 2. **(D)** $2019 \times 1000 = 2019000 \text{ (7-digits)}$
- 3. (D) Option (A) leaves remainder → 4
 Option (B) leaves remainder → 5
 Option (C) leaves remainder → 6
 Option (D) leaves remainder → 7
- 4. **(D)** No. of bicycles = $5 \rightarrow 5 \times 2$ wheels = 10 wheels

No. of tricycles = $3 \rightarrow 3 \times 3$ wheels = 9 wheels

No. of quadbike = $1 \rightarrow 1 \times 4$ wheels = 4 wheels

= 10 + 9 + 4 = 23 wheels

5. (D) There are 10 – se<u>V</u>ens in the unit digit,
10 – se<u>V</u>entys, 9 – fi<u>V</u>es in the units,
ele<u>V</u>en and twel<u>V</u>e

10 + 10 + 9 + 2 = 31 times

- 6. **(D)** 3445 > 3322
- 7. (B) Number of apples on a tree = 15Number of apples on the ground = 6Total no.of apples = 15 + 6 = 21

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8. **(B)** Since, 3 steps 1 jump of a crow

So, 1 step = $\frac{1}{3}$ jumps of crow

Therefore, 18 steps = $\frac{18}{3}$ = 6 jumps of the crow

- 9. **(A)** Multiply by $3 = 0 \times 3$ Subtract zero from it $= 0 \times 3 - 0 = 0$
- 10. (C) 1 bus carries → 32 students
 ? → 323 students
 323 ÷ 32 = 10 R 3
 Hence 11 buses are needed to carry 323 students
- 11. (B) 1 child blow → 3 ballons in 1 minute
 5 children blow → ? in 2 minute
 5 children → 5 × 3 ballons
 = 15 ballons in 1 minute
 In 2 minutes = 15 + 15
 = 30 ballons
 5 children can blow 30 ballons in 2 minutes
- 12. **(B)** Only $\frac{1}{8}$ is less than $\frac{4}{8}$

7 5 8

13. **(A)** $\frac{\times 6}{4548}$

- 14. **(A)** 3 kg 381 g = 3381 g Mass of one dictionary = $3381 \div 7$ = 483 g
- 15. **(D)** The time shown on the clock is 29 minutes past 11
- 16. **(A)** Pranith can create these numbers 54637, 45637, 46537, 46357, 46375

 The smallest of these arises when the 5 is inserted in between 4 and 6
- 17. **(A)** 3000 1623 = 1377 Value of the digit 3 in 1377 = 300 Value of the digit 3 in 1732 = 30 300 30 = 270

- 18. **(C)** Height of 9 cupboard = 208 cm Height of 2 cupboards = $208 \times 2 = 416 \text{ cm}$ Height of the wall is same as 2 cupboards = 416 cm
- 19. **(C)** Cost of a can of soft drink = ₹ 20.50 Amount with Amit = ₹ 10.50 Amount needed to Amit to buy the can of soft drink = ₹ 20.50 – ₹ 10.50 = ₹ 10
- 20. **(D)** Capacity of white paint = 9 l Capacity of red paint = 13 l Capacity of both paints = 9 + 13 = 22 l
- 21. **(B)** ₹ 44.90 − ₹ 24.80 = ₹ 20.1 ₹ 20.1 − ₹ 10.20 = ₹ 9.9 ₹ 9.9 + ₹ 10.20 = ₹ 20.1
- 22. **(C)** 4001 ml 251 ml = 3750 ml= 3 l 750 ml
- 23. **(A)** Mass of the toy is 415 g [∴ 1 unit = 5 g]
- 24. **(D)**

The new sheet has 12 sides

 $\begin{array}{rrr}
360 & 503 \\
26.$ **(A)** $& \frac{+143}{} & \frac{-87}{}
\end{array}$

25. **(C)**

503 416

1 km = 1000 m

- 27. **(B)** 20 minutes to 1:00 = 12:40
- 28. **(B)** x + 500 g = 2 kg 500 g

 Mass of x is 2 kg

 x is 1 kg less than y

 So the mass of object y is (2 + 1 = 3 kg)

John had 416 balloons at first

29. **(C)** Part of cake ate by Nisha = $\frac{3}{8}$ Part of cake took by her brother = $\frac{1}{4}$ Part of cake left = $1 - \frac{3}{8} - \frac{1}{4}$

$$=\frac{8}{8}-\frac{3}{8}-\frac{2}{8}=\frac{3}{8}$$
 is left

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30. **(B)** Option (A) :-
$$\frac{8}{8}$$
 = 1

Option (B) :-
$$\frac{14}{2}$$
 = 7

Option (C) :
$$-\frac{18}{9} = 2$$

Option (D) :-
$$\frac{6}{8} = \frac{3}{4}$$

31. **(D)**
$$20 + 20 = 40$$
 and $20 + 30 = 50$

33. **(A)**
$$5 \times 3 = 15$$

from the given options

$$5 = 15 \div 3$$

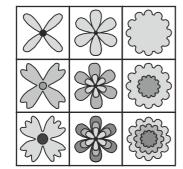
Cost of each cookie = ₹ 25

To find the cost of candy

35. **(C)** Rectangle, quarter circle and semicircle

REASONING

36. **(C)** Table is the odd one out because the chair, sofa and stool are used to sit on.



38. (D) A _B C _D E _F G _H I _J K _L M _N O





40. **(A)**



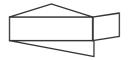
41. **(D)**



- 42. **(D)** 'A' appers once in STATISTIC and twice in STATISTICAL
- 43. **(D)**



- 44. **(B)** There are '7' rectangles in the given figure.
- 45. **(A)**



CRITICAL THINKING

46. **(B)**



47. **(C)** No. of pigs = 3

Thrice the no. of pigs means $3 \times 3 = 9$

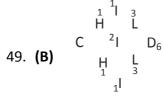
At present 6 animals

3 more cows need so, that the total no. of animals is equal to thirce the no. of pigs.

48. **(B)** Present time 1:30 = 13:30

2 hrs 30 minutes before means

13 hrs 30 min – 2 hr 30 min = 11'O clock



I can form the word "CHILD" in 6 ways.

50. (D) Small rabbit is 7 weeks 2 days.

There are '7' days in a week.

So, 5 days are needed to become the rabbit '8' weeks old.