



# UNIFIED COUNCIL

An ISO 9001:2015 Certified Organisation



Unified International  
Mathematics Olympiad

## UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD

CLASS - 1

Question Paper Code : UM9246

### KEY

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

### EXPLANATIONS

#### MATHEMATICS

1: (D) Both the vases have the same number of flowers

$$\text{i.e., } 4 = 4$$

2: (D)  $10 + 7 = 17$

$$7 + 8 = 15$$

$$\text{☹} + \text{☺} = 10 + 15 = 25$$

3: (B) Cost of the book = ₹ 44

$$\text{Cost of bag} + \text{cost of crayons} = ₹ 30 + ₹ 14 = ₹ 44$$

Tanish can buy bag and crayons that is as much as a book

4: (B)  $40 + 9 = 49$  is just after 48.

5: (B) Option (B) holds the less water


6: (C) Number of stickers with Aliya = 9

Number of stickers with Sheena = 6

$$9 - 6 = 3 \text{ fewer stickers}$$

7: (B) Adding 3 to each pumpkin we get 72, 75, 78, 81, 84

8: (D) In December 2020, 25<sup>th</sup> day falls on Friday

9: (D)  is not there in the given figure

10: (A)  $15 - 2 = 13$

$$10 + 3 = 13$$

11: (C)  +  = 20

12: (B) Numbers between 5 and 12 are 6, 7, 8, 9, 10, 11

13: (D) ₹ 20 + ₹ 20 = ₹ 40

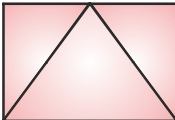
14: (D) 4 fewer circles are there in Figure B than in Figure A.

15: (D) Number of balloons with Sunny = 16

Number of balloons burst = 6

$16 - 6 = 10$  balloons are left with Sunny

16: (C)  $50 - 15 = 35$


17: (A)  – upward triangle is missing

18: (C) 12 O'clock in the night is called mid-night

19: (A) 2  = 8

 = 4

 + 4 = 9

 =  $9 - 4 = 5$

20: (C) The time shown on the clock is half past 9 i.e., 9.30

21: (C) Cost of a T-shirt = ₹ 85  
Cost of pair of shoes = ₹ 80  
 $= ₹ 85 + ₹ 80 = ₹ 165$

22: (B) Watermelon + 3 strawberries  
= 9 strawberries  
Watermelon =  $9 - 3 = 6$  strawberries



23: (C) The numbers are in descending order. So, 42 comes after 43.

24: (A)  $12 - 2 = 15 - 5$   
 $10 = 10$



25: (B)  is missing in 3<sup>rd</sup> set

26: (A) Distance between the dog and the bone is 10 metres

27: (D) Given  +  = 4 then  = 2

Given  +  = 3

$\therefore$   = 1

Given  +  = 5

$\therefore$   = 3

$\therefore$   +  =  $1 + 3 = 4$ .

28: (D) Number 25 is missing in the given grid.

29: (D)  $8 + 7 - 5 = 10$

30: (B) There are 31 spots on all the 5 butterflies

### REASONING






31: (C) Nail cutter is used to keep nails clean. Similarly toothbrush is used to keep our teeth clean.



32: (C) The  is same as option (C)


33: (C) Number of sides of the polygon and middle number are same.

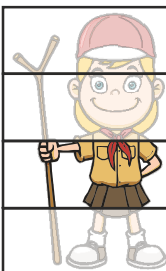
34: (A)     

35: (A)     

36: (C)  – 

37: (C) Goat – meat, Sheep – Wool.

38: (C) 

39: (A) 

40: (D) Option (D) is different from others.