



Unified International  
Mathematics Olympiad

**UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD (UPDATED)**

**CLASS - 2**

**Question Paper Code : UM9279**

**KEY**

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

**EXPLANATIONS**

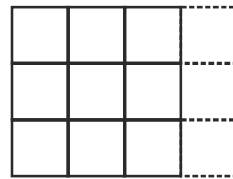
**MATHEMATICS**

01. (B) Number of fishes in a bowl = 382  
Number of fishes in an aquarium =  $382 + 172 = 554$
02. (C) 667, 664, 660, 659, 658 are in descending order
03. (A) Number of children in 1 row = 8  
Number of children in 8 rows = ?  
 $8 \times 8 = 64$  children
04. (C) Number of hours in a day Kushal spent to practice foot ball from 4:00 p.m. to 6:00 p.m. = 2 hours  
Monday = 2 hrs, wednesday = 2 hrs  
Friday = 2 hrs

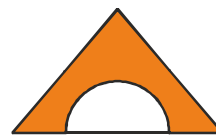
- Total number of hours Kushal spent  
 $= 2 + 2 + 2 = 6$  hours
05. (B) Amount spent by Anitha in a day = ₹ 6  
Amount spent by Anitha in 2 weeks 2 days  
1 week = 7 days  
2 weeks =  $2 \times 7 = 14$  days  
 $= 14$  days + 2 days = 16 days  
Amount spent in 16 days =  $16 \times ₹ 6 = ₹ 96$
06. (C) Length of rope P = 6 units  
Length of rope R = 12 units  
Rope P is exactly half of the rope R

07. (A) Length of a ribbon = 256 m  
Length of each piece = 8 m  
Number of pieces she has cut = ?  
 $= 256 \div 8 = 32$  pieces  
Number of pieces with Ankitha = 32
08. (Delete)
09. (B) Sum of the numbers  $328 + 251 = 579$   
Place value of 7 in 579 is tens place  
i.e., 70
10. (B) 1 fish tank = 9 fishes  
4 fish tanks =  $9 \times 4 = 36$  fishes  
 $36 - 5 - 2 = 36 - 7 = 29$  fishes
11. (C)  $77 - 32 = 45$
12. (B) Squares = 5; circles = 4  
 $5 - 4 = 1$
13. (B) Half an hour past 10:50 =  $10:50 + 30$  min  
 $= 10:80$  min  
 $= 11:20$  min
14. (C)  $15 + 12 = 27$
15. (C) Amount with Naina = ₹ 45  
Amount with Vinod = ₹ 45 + ₹ 20 = 65  
Total amount = ₹ 65 + ₹ 45 = ₹ 110
16. (B) 1 day = 1 litre  
10 days =  $10 \times 1 = 10$  litres
17. (A) Weight of rice bag = 350 g  
Weight of chips = 50 g  
 $350 \text{ g} - 50 \text{ g} = 300 \text{ g}$
18. (A) Number of story books with Kushi = 28  
Number of books in 1 shelf = 7  
Number of book shelves required =  $28 \div 7 = 4$  book shelves
19. (A)  $A = 33 \div 3$   
 $A = 11$   
 $B = 40 \div 4$   
 $B = 10$   
 $A + B = 11 + 10 = 21$

20. (B) Given digits 2, 0 and 1  
Number of digits we can form is 102, 120, 201, 210
21. (B) Length of the matchstick = 30 cm  
Length of the pencil is 2 times of matchstick  
i.e.,  $30 \times 2 = 60$  cm
22. (D) The numbers 4, 6, 8 and 0 can be divided into groups of 2 exactly.  
Number in the table of 4 are 4, 8, 12, 16, 20, 24, 28, 32, 36, 44  
So, numbers 14 and 18 cannot be divided by 4 exactly i.e., P and S
23. (B) Total number of children = 5 girls + 4 boys = 9  
Number of balloons given to 9 children =  $9 \times 4 = 36$   
Number of balloons left = 24  
Number of balloons he had at first =  $36 + 24 = 60$



24. (C) 3 more small squares should be added to (any side of a square) the given figure to make a rectangle
25. (C) 11:25 p.m.
26. (D) Semi circle



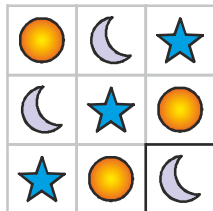
27. (B) Each mark represents 10 l  
The capacity of the tank is 40 l  
So, the tank is filled upto 3<sup>rd</sup> mark  
i.e., 30 l, more 10 litres is needed to fill up the tank

28. (C) Number of bicycles = 9  
 Number of wheels to a bicycles =  $9 \times 2 = 18$   
 Number of autos = 9  
 Number of wheels to 9 autos =  $9 \times 3 = 27$   
 Total number of wheels =  $27 + 18 = 45$   
 wheels

29. (D) Option (D) is not a quadrilateral, it has more than 4 sides
30. (D)  $25 \text{ min} + 35 \text{ min} = 60 \text{ min}$   
 $= 1 \text{ h}$  (time taken by Sandhya)

**REASONING**

31. (A) Inner shape becomes outer shape and outer shape becomes inner shape.
32. (C) Option (C) is different from others.

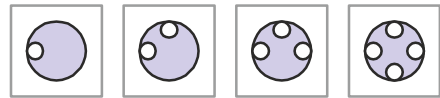


33. (B)

34. (A) After interchange P = 1, Q = 2, U = 3, S = 4, T = 5, R = 6, V = 7 and W = 8

35. (Delete)

36. (B)



37. (A) Option (A) is same as the given image.



38. (C)

39. (B) If alphabets in "Flip" are reversed it becomes "Pifl". Similarly alphabets in "Dog" are reversed to get the word "God".



40. (D)