



UNIFIED COUNCIL

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Unified International
Mathematics Olympiad

UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD (UPDATED)

CLASS - 2

Question Paper Code : UM9009

KEY

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

EXPLANATIONS

MATHEMATICS

- (D)** $12 \div 3 = 4$
- (B)** 4 squares
- (A)** 6 hundreds, 20 tens and 10 ones
 $6 \times 100 + 20 \times 10 + 10 \times 1 = 810$
- (B)** $2 \text{ kg} = 2 \times 1000 \text{ g} = 2000 \text{ g}$
- (B)** From the options at 6 O'clock the minute hand and hour hand is exactly opposite to each other
- (C)** No. of children = 3
No. of adults = $3 \times 2 = 6$
No. of people in the bus $3 + 6 = 9$
- (B)** $13 + 9 + 8 = 30$

- (A)** Mass of box A = 182 kg
Mass of box B = $182 + 29 = 211 \text{ kg}$
- (B)** $1 \times 4 = 4$
 $2 \times 8 = 16$
 $3 \times 3 = 9$
- (A)** Option (A) jug water level is same as given jug
- (A)** $14 \div \square = 7$
 $14 \div 2 = 7$
 + 2 +  = 14

$$\star + \text{😊} = 14 - 2 = 12$$

😊 is more than $\star$

$$5 + 7 = 12$$

$$\star = 5 \text{ and } \text{😊} = 7$$

$$5 + 2 + 7 = 14$$

12. (C) 2 apples = 100 g
2 apples + bunch of grapes = 300 g
 $300 - 100 = 200$ g
Mass of bunch of grapes = 200 g
13. (A) $4 + 3 = 7$ sweets
14. (D) Length of 2 ribbons = $56 \text{ cm} + 56 \text{ cm}$
 $= 112 \text{ cm}$
Length of 3rd ribbon = 68 cm
Total length = $112 + 68 = 180 \text{ cm}$
15. (C) The number of circles = 8
The number of triangles = 5 and
The number of rectangles = 1
16. (D) 2 boxes – $2 \times 5 = 10$ pears = ₹ 10
4 boxes – $4 \times 5 = 20$ pears = ₹ 20
17. (D) No. of stickers collected by Roshan = 105
He wants to collect = 200 stickers
No. of stickers need to collect
 $= 200 - 105 = 95$
18. (A)

Taller	Shorter
A	C
A	B

B is not shortest, So 'C' is shortest
Decreasing order = A, B, C
19. (B) $7 - 2 = 5$

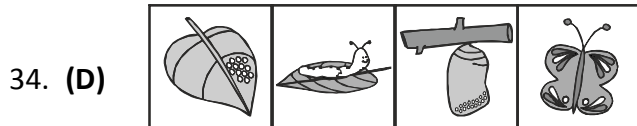
20. (C) Capacity of a bottle = 2 l
capacity of a jug = 8 l
 $1 \text{ jug} = 8 \text{ l}$
 $2 \text{ jugs} = 8 \times 2 = 16 \text{ l}$
 $1 \text{ bottle} = 2 \text{ l}$
 $? = 16 \text{ l}$
 $\frac{16}{2} = 8 \text{ bottles}$
2 jugs of water can fill 8 bottles
21. (B) ₹ 14 + seven rupees and fifty paise
 $= ₹ 14 + ₹ 7 + ₹ 50 \text{ p}$
 $= ₹ 21.50$
22. (A) Numbers between 20 and 30 are 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30
Even numbers : 22, 24, 26, 28
The even number which is exactly divisible by 3 is 24
23. (B) $6 + 4 - 1 = 9$, $7 + 5 - 4 = 8$
 $8 + 6 - 7 = 7$, $9 + 7 - 8 = 8$
24. (D) ₹ 20 + ₹ 10 + ₹ 10 + ₹ 5 = ₹ 45
25. (A) $27 \div 3 = 9$
-  = 9
- then 
- $= 4 \times 9 = 36 \text{ stars}$
26. (A) Nikhil started watching cartoon at 6 p.m.
It lasted for 1 hr
Cartoon show end at = $6 \text{ pm} + 1 \text{ hr} = 7 \text{ pm}$
27. (D) $85 - 5 = 80$
28. (C) $40 \div 4 = 10$, then $10 \div 2 = 5$
29. (D) 6
30. (B) Actual time is 11:59
The correct time 15 minutes ago is
 $11:59 - 0:15 \text{ min} = 11:44$

REASONING

31. **(D)** Object in option (D) belongs to the given group.

32. **(C)** Option (C) is different from others.
Option (A), (B) and (D) are fruits, whereas option (C) is vegetable.

33. **(B)** The given figure is hidden in option (B).



35. **(D)** Chocolate bar is rectangle in shape, whereas in option (D) sandwich is triangle in shape.

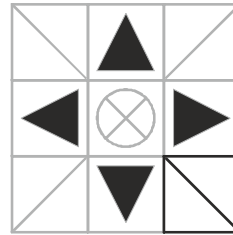
36. **(A)** The shadow of the given fish is in option (A).

37. **(A)** There are 3 curve shapes in the given picture.

38. **(C)** The figure in option (C) is similar to the given group.

Aeroplane, Air balloon and Drone are artificial.

39. **(A)** Option (A) comes next in the given series.



40. **(B)**

===== The End =====