



UNIFIED COUNCIL

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Unified International
Mathematics Olympiad

UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD

CLASS - 2

Question Paper Code : UM9246

KEY

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

EXPLANATIONS

MATHEMATICS


- 1: (C) $888 - 37 = 851$; 815 is incorrect
- 2: (C) Option (C) is not divided equally
- 3: (C) 94 is the same as P tens and Q ones
 $94 \text{ tens } 5 \text{ ones} = 94 \times 10 + 5 \times 1$
 $= 940 + 5 = 945$
- 4: (C) Length of pole X = 5 m
Length of pole Y = 8 m
 $8 \text{ m} - 5 \text{ m} = 3 \text{ m}$
Pole Y is 3 m long than pole X
- 5: (A) Given + = 300
Given = 75, then $75 + \text{img alt="smiley face"} = 300$

$$\therefore \text{img alt="smiley face"} = 300 - 75 = 225$$

Difference between and

$$225 - 75 = 150$$

- 6: (C) Cost of 1 orange = ₹ 2
Cost of 7 oranges = $7 \times 2 = ₹ 14$
Cost of 2 apples = ₹ 4
Cost of 1 apple = $4 \div 2 = ₹ 2$
Cost of 4 apples = $4 \times 2 = ₹ 8$
Cost of 3 mangoes = ₹ 3
Cost of 1 mango = $3 \div 3 = ₹ 1$
Cost of 6 mangoes = ₹ 6
Cost of all fruits = ₹ 14 + ₹ 8 + ₹ 6 = ₹ 28

- 7: (A) $321 - 213 = 108$
- 8: (C) Given time is 1:30 p.m.
Jaya had her lunch 1 hour later from 1:30 p.m.
i.e., 2:30 p.m.
- 9: (D) Weight of 4 books = $9 \times 100 \text{ g} = 900 \text{ g}$
(Where each  stands for 100 g)
- 10: (D) 6 less than 15
i.e., $15 - 6 = 9$ is the smallest value than others
- 11: (A) 4 children \rightarrow 1 round
20 children $\rightarrow 20 \div 4 = 5$ rounds
- 12: (C) Circles - 8; Triangles - 5, Rectangle - 1
- 13: (A) Mona sleeps at 9 O'clock at night i.e., 9 p.m.
Number of hours she sleep = 9 hours
From 9 p.m. to 9 hours i.e., till 6 O'clock
She will wakeup at 6 a.m.
- 14: (D)
$$\begin{array}{r} 516 \\ + 245 \\ \hline 761 \end{array}$$
- 15: (C) $8080 \div 10 = 808$
= 80 tens 8 ones
- 16: (D) Number of children = 5
Total number of chocolates = $5 \times 5 = 25$
Total no. of chocolates if each have twice the given = $25 \times 2 = 50$.
- 17: (C) 1 bouquet = 8 flowers
9 bouquets = ?
 $8 \times 9 = 72$ flowers
- 18: (D) Number of ice creams bought by Juhi = 4
Cost of 2 ice-creams = ₹ 25×2
= ₹ 50 (\because 1 ice-cream = ₹ 25)
Cost of another 2 ice-creams = ₹ $15 \times 2 =$
₹ 30
(\because 1 ice-cream = ₹ 15)
Amount paid for 4 ice-creams = ₹ $50 +$
₹ 30 = ₹ 80

19: (B) $56 \div 8 = 21 \div 3$

$7 = 7$

20: (A)

Light	Heavy
T	B
R	T

$R < T < B$ i.e., R, T, B

21: (A) Cost of 1 glass of juice = ₹ 15 (Given)

Cost of 3 glasses = ₹ $15 \times 3 =$ ₹ 45

So, Cost of 1 jar = ₹ 45

22: (C) Number of pencils = 7

Number of books = 5

Number of erasers = 8

$5 < 7 < 8$

i.e., Book < Pencil < Eraser

23: (A) In 1 class room, 6 girls and 4 boys.

In 5 class rooms $6 \times 5 = 30$, $4 \times 5 = 20$

$= 30 - 20 = 10$

\therefore 10 more girls than boys in 5 such classrooms.

24: (D) Number of legs an ant have = 6

Number of legs to 4 ants have = $6 \times 4 =$
24 legs

Number of legs to 1 child = 2

Number of children = $24 \div 2 = 12$

25: (D) $7 \times 2 = 14$ bones


26: (B) $140 + 210 = 350$


27: (C) 6 tables with 4 chairs each = $6 \times 4 = 24$
chairs

4 tables with 2 chairs each = $4 \times 2 = 8$
chairs



3 tables with 6 chairs = $3 \times 6 = 18$ chairs

Total number of chairs = $24 + 8 + 18 = 50$

28: (D)  $\rightarrow 144 + 155 = 299$

 + 180 = 380

$200 + 180 = 300$

 +  $\rightarrow 299 + 200 = 499$

29: (D) Yamini is in 3rd position


30: (A) $10 + 6 = 16 \xrightarrow{+8} 24 - 6 = 18 \xrightarrow{+8} 26 - 10 = 16$

Hidden number behind flower = 16

REASONING

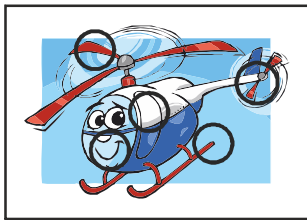
31: (C) Brush is a tool used to paint, needle is a tool for stitching using thread.

32: (D) Option (D) is different.

33: (B) The missing shape in the grid is .

34: (D) Like forest is made of trees, lawn is made of grass.

35: (D)



36: (B) Option (B) is correct, each time 1/4th part is added to next figure.

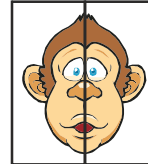
37: (A) Option (A) and question image are same.



38: (B)

39: (D) Apple 6th is the 3rd from right after removing 3 and 7 apples in the given question.

40: (C)



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The End
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