



Unified International
Mathematics Olympiad

UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD (UPDATED)

CLASS - 2

Question Paper Code : 40119

KEY

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

EXPLANATIONS

MATHEMATICS

01. (A) On the balance, X needs fewer weights to balance, so X is heavier than Y and Z, therefore X is the heaviest ball.

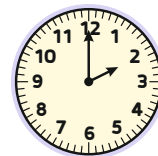
02. (C) ★ = 8

$$8 \div 8 = 1$$

03. (C) 90 tens 57 ones
= $900 + 57 = 957$

The digit in the tens place is 5.

04. (D) The given clock shows 12:00 O'clock and two hours later means 2:00 O'clock



05. (B) $p = 40$; $q = 80$

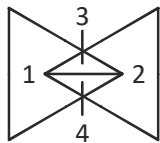
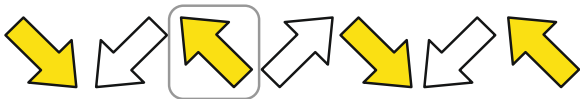
$$60 + 40 = 100 = 20 + 80 = 100$$

$$40 + 80 = 120$$

06. (C) $6 + 5 + 3 + 6 = 20$

total 20 pencils, each member gets 10 pencils.

07. (A) There are 7 boxes given, each box has pair of shoes.
So, $7 \times 2 = 14$
08. (A) 90, 67, 59, 36, 21, 18
09. (C) All numbers ending in 2, 4, 6, 8 are even.
That's the rule for even numbers. The others are incorrect.
10. (D) The yellow strip is 4 times the blue strip.
So, blue + 4 blue = 5 equal parts
All together they make 20 cm
 $20 \div 5 = 4$ cm
The blue strip is 4 cm long (Option D)
11. (D) $3 \times 7 = 21$
12. (B) Volume of orange juice in the 9 bottles = $9 \times 5 = 45$ litres
 $45 + 3 = 48$ litres
Nitya had 48 litres of orange juice at first.
13. (B) There are 10 curved lines in the given picture.
14. (A) $25 - 14 = 11$ (no. of children)
 $11 - 3 = 8$
 $8 \div 2 = 4$ (no. of boys)
 $4 + 3 = 7$
15. (B) $48 - 6 = 42$; $42 \div 7 = 6$
16. (A) 1 chick = 10 balls
3 chicks = $10 + 10 + 10 = 30$ balls
17. (A) To make the given quantity 6 litres, we should add 2 litres.
18. (D) Option (A) : 50 blocks
Option (B) : 90 blocks
Option (C) : 20 blocks
Option (D) : 100 blocks
19. (B) Nail X = 4 cm, Nail Y = 6 cm, Nail Z = 7 cm
Nail Z is 3 cm longer than Nail X.

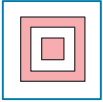
20. (C)  +  = 40
 $20 + 20 = 40$, so  = 20
 +  = 52
 + 20 = 52
 $52 - 20 = 32$
 = 32
21. (A) $4 + 2 = 6$ (Tuesday)
 $4 + 4 + 4 + 4 + 2 = 18$ (Thursday)
 $18 - 6 = 12$
22. (A) $72 \text{ kg} - 45 \text{ kg} = 27 \text{ kg}$
23. (A) 64 tens 93 ones = $640 + 93 = 733$
24. (D) $16 + 4 = 4 + 16$
25. (C) $10 + 23 = 33$
26. (D) Two story books ₹ 25 + ₹ 25 = ₹ 50
27. (B) There are 2 half hours in 1 hour. So there are 4 half hours in 2 hours.
28. (B) 
29. (C) 
30. (D) Sat, Sun, Mon, Tue, Wed, Thur
1st 2nd 3rd 4th 5th 6th

REASONING

31. (C)  is not hidden in the given box.

32. Delete

33. (D)



34. (A) Two triangles have 6 sides and one square have 4 sides, so $6 + 4 = 10$ sides

35. (B)



36. (A) $3 : 12 :: 5 : ?$

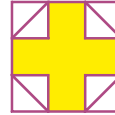
$$12 = 3 \times 4$$

$$5 \times 4 = 20$$

37. (C)



38. (C)



39. (C) Dog, cat, rabbit are animals that live with people and are kept at home or on farms. So they belong to domestic animals.

40. (B) Alphabet 'N' is missing in the group.

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The End
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