



Unified International  
Mathematics Olympiad

**UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD**

**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	C	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.

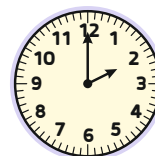
02. (C) ★ = 8

$$8 \div 8 = 1$$

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)  $p = 40$  ;  $q = 80$








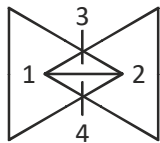
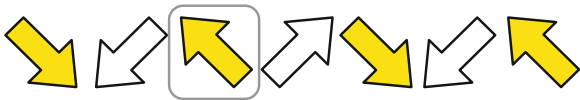
$$60 + 40 = 100 = 20 + 80 = 100$$

$$40 + 80 = 120$$


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

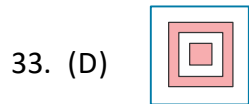
total 20 pencils, each member gets 10 pencils.

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  
1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> 5<sup>th</sup> 6<sup>th</sup>

### REASONING

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



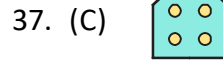
34. (A) Two triangles have 6 sides and one square have 4 sides, so  $6 + 4 = 10$  sides



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

$$12 = 3 \times 4$$

$$5 \times 4 = 20$$



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.

=====*The End*=====