



Unified International
Mathematics Olympiad

UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD (UPDATED)

CLASS - 2

Question Paper Code : 4P104

KEY

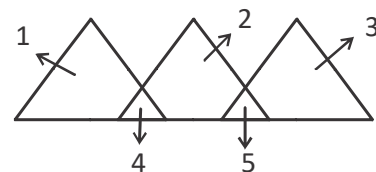
1	2	3	4	5	6	7	8	9	10
B	C	A	A	C	D	C	B	B	C
11	12	13	14	15	16	17	18	19	20
D	A	A	C	C	A	B	C	D	C
21	22	23	24	25	26	27	28	29	30
D	A	C	A	D	C	B	D	C	A
31	32	33	34	35	36	37	38	39	40
C	A	D	D	D	C	D	B	C	B

SOLUTIONS

MATHEMATICS

- (B) 42, 44, 46, 48, 50, 52, 54, 56, 58 are even numbers between 40 and 60.
- (C) $800 - 80 = 720$
- (A) $20l - 15l = 5l$
- (A) April, June, September and November
So, there are 4 months in a year that have 30 days each.
- (C) In addition and multiplication changing the order does not change the answer in subtraction the order does change the answer
- (D) Rs. $5 \times 4 =$ Rs. 20

07. (C)



08. (B)

H	T	O
2	5	1

09. (B)

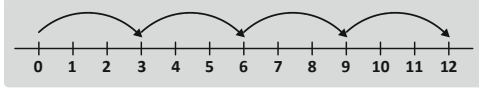
$$16 \times 3 = 18 + 4 = 52$$

10. (C)

The shape that has one vertex, one plane face, one curved face and one edge in a cone.

11. (D) $5 + 2 + 1 = 8$
 (A) $4 + 1 + 3 = 8$
 (B) $4 + 2 + 2 = 8$
 (C) $5 + 1 + 2 = 8$
 (D) $6 + 0 + 1 = 7$

12. (A)

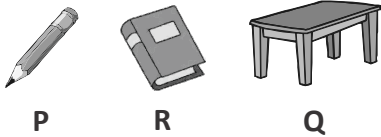


$3 + 3 + 3 + 3 = 12$

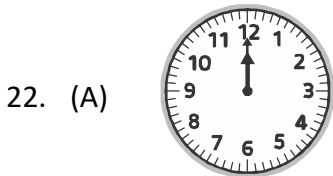
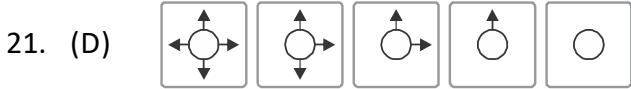
13. (A) $12 \div 3 = 4$
 14. (C) Chintu > Bunny
 15. (C) $2 + 3 = 3 + 2$ (F)
 $2 - 3 \neq 3 - 2$ (T)
 $19 + 23 = 42$ (T)

16. (A)
$$\begin{array}{r} 54 \\ + 38 \\ \hline 92 \end{array}$$

17. (B) $\triangle = 3$
 $8 \times 3 = 24$



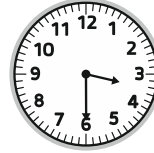
19. (D) A football is heavier than a feather.
 20. (C) Measuring tape is used to measure room wall



23. (C) $20 + 10 + 10 = 40$
 24. (A) $1 \text{ kg} = 1000 \text{ g}$
 Among options 100 g is heaviest
 25. (D) $900 - 372 = 528$
 $383 + 255 = 638$
 $862 - 264 = 598$
 $169 + 479 = 648$

26. (C) Avinash = 50 kg
 Madhu = 50 kg - 4 kg = 46 kg
 Balaji = 50 kg + 5 kg = 55 kg
 $50 \text{ kg} + 46 \text{ kg} + 55 \text{ kg} = 151 \text{ kg}$

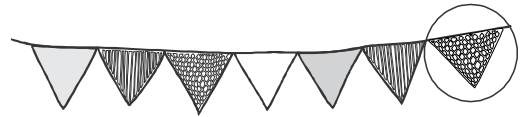
27. (B) From left $\frac{3^{\text{rd}}}{6^{\text{th}}}$ From right



28. (D)
 29. (C) 56565(7) → odd
 30. (A) $7 - 4 = 3$

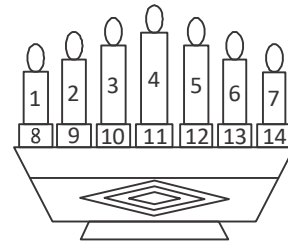
REASONING

31. (C) It is a repeated pattern in which the first four figures are repeated.



Hence, 7th flag must be the same as the 3rd flag.

32. (A) There are 14 rectangles.

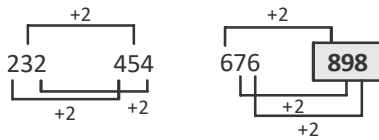


33. (D) 

34. (D) In option (D), the circle is not in between the square and triangle and is also shaded.
 35. (D) Letter positions interchange and number at the centre is decreased by 1. So, the required match is B1A.

36. (C) 

37. (D)



38. (B) T appears in the word 'mathematics' but not in the word 'mechanics'.

39. (C) Option (C) is a calendar and the rest are clocks.

40. (B) $7 - 6 = 1$, $1 \times 1 = 1$, $14 - 13 = 1$

$20 \div 10 = 2$, $2 \times 1 = 2$, $20 - 18 = 2$

$2 + 1 = 3$, $0 + 3 = 3$, $9 \div 3 = 3$

So, the required group is as that in (B).