

**UNIFIED COUNCIL**

Foundation for success

**Unified International
Mathematics Olympiad****UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD (UPDATED)****CLASS - 3****Question Paper Code : 40119****KEY**

1	2	3	4	5	6	7	8	9	10
B	D	A	D	B	C	A	B	B	C
11	12	13	14	15	16	17	18	19	20
B	B	C	A	B	D	A	A	A	C
21	22	23	24	25	26	27	28	29	30
D	C	C	D	Delete	A	A	C	C	B
31	32	33	34	35	36	37	38	39	40
B	C	C	A	B	A	D	D	A	C
41	42	43	44	45	46	47	48	49	50
C	B	A	B	A	D	A	B	A	D

EXPLANATIONS**MATHEMATICS**

01. (B) Lasya needs $25 + 10 = 35$ minutes
 $7:30 - 35$ minutes = 6:55 am

02. (D) The circled digit is 9 in the thousands place
Place value = 9000, face value = 9

03. (A) Ramya has 5 times Jim's marbles
 $20 \div 5 = 4$

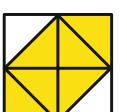
04. (D) Schools reopened on Wednesday, so the 10-day vacation ended on Tuesday and started on Sunday.
Counting 14 days from the start (inclusive), the day comes out to be Saturday.

05. (B) The pattern has 4 colours: red, green, blue, yellow.

$$26 \div 4 = 6 \text{ remainder } 2.$$

The 2nd colour in the pattern is green.

06. (C) (ii)  = $\frac{3}{4}$

(iv)  = $\frac{6}{8} = \frac{3}{4}$

07. (A) $\square + \square + \square = \text{Rs. } 15$ $\square = \text{Rs. } 5$
 $\bigcirc + \bigcirc + \text{Rs. } 5 = \text{Rs. } 49$ $\bigcirc + \bigcirc = \text{Rs. } 44$ $\bigcirc = \text{Rs. } 22$

$$\bigcirc + \square = \text{Rs. } 22 + \text{Rs. } 5 = \text{Rs. } 27$$

$$\bigcirc + \square = \text{Rs. } 22 + \text{Rs. } 5 = \text{Rs. } 27$$

08. (B) $a = 7896 - 5124 = 2772$
 $b = 7896 - 2637 = 5259$

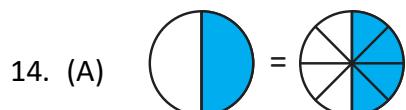
09. (B) $136 \times 2 = 272$

10. (C) Adults = $726 - 380 = 346$
Men = $346 \div 2 = 173$
Women = $346 - 173 = 173$

11. (B) Boards per table = $4 + 2 \times 2 = 8$
Total boards = $7 \times 8 = 56$

12. (B) Daily = 25 km
 $60 \div 25 = 2.4$ days
After 2 full days (Mon & Tue) = 50 km
On Wednesday, he reaches 60 km

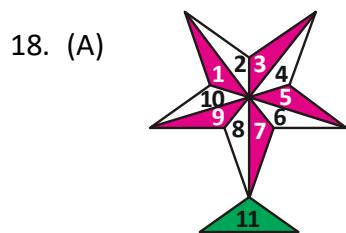
13. (C) Remaining = $1000 - 528 = 472$



15. (B) $1680 - (1920 - 1680)$
 $= 1680 - 240 = 1440$

16. (D) $(6 + 12 + 18 + 24 + 6) \div 6$
 $= 66 \div 6 = 11$

17. (A) Total spent = $27 + 15 + 29 = 71$
Money left = $100 - 71 = 29$



19. (A) Daily hours = 2:00 p.m. – 6:00 a.m.
= 8 hours
Weekly = $8 \times 7 = 56$ hours

20. (C) Filled = 600 ml, total = 1000 ml

$$\text{Fraction} = 600 \div 1000 = \frac{3}{5}$$

21. (D) $300 \div 12 = 25 \rightarrow$ second number = 25
Box = 2P \rightarrow 2 tens, P ones \rightarrow P = 5

22. (C) Any number $\times 1 \div 1 =$ The original number

23. (C) F, L, T have perpendicular lines.

24. (D) To determine which figure has the greatest number of sides, count the straight-line segments for each option:
Figure in option (A) has 12 sides.
Figure in option (B) has 12 sides.
Figure in option (C) has 14 sides.
Figure in option (D) has 16 sides. (Most sides)

25. Delete

26. (A) Total time = $35 + 25 + 25 = 85$ minutes
Convert to hours and minutes
 $85 \text{ min} = 1 \text{ hour } 25 \text{ minutes}$

27. (A) Pavani has 72 oranges.
Oranges = $8 \times$ apples \rightarrow Apples = $72 \div 8 = 9$

Pears = $4 \times$ apples = $4 \times 9 = 36$
28. (C) Time passed between 1:30 p.m. and 8:45 p.m.
Hours : $8 - 1 = 7$ hours

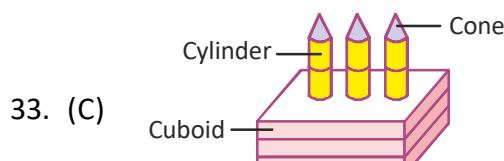
Minutes : $45 - 30 = 15$ minutes
Total time = 7 hours 15 minutes

29. (C) $25l + 22l = 47l$

30. (B) $1727 + 6475 = 8202$
(Eight thousand two hundred and two)

31. (B) p = 7 cm, q = 5 cm, r = 6 cm

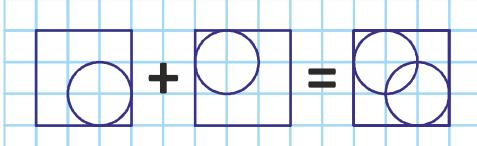
32. (C) Rows = $1925 \div 7 = 275$



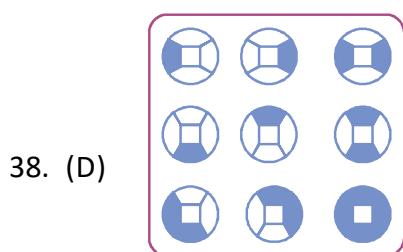
34. (A) 5 fifths = $5 \div 5 = 1$ whole
 8 fourths = $8 \div 4 = 2$, not 3
 6 sixths = $6 \div 6 = 1$, not 2
 6 thirds = $6 \div 3 = 2$, not 1

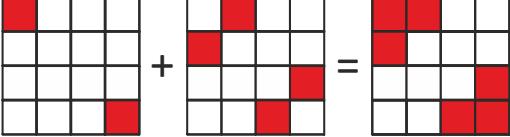
35. (B) Total paper clips = 200
 Lost = 20 \rightarrow Remaining = $200 - 20 = 180$
 Share equally among 6 friends : $180 \div 6 = 30$

REASONING

36. (A) 

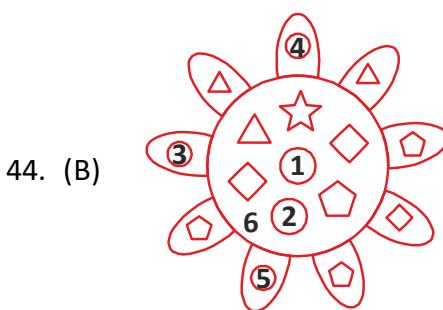
37. (D) Look at the type of shapes in given group.
 Yellow circle, green circle and cross with square are here in answer figure.



39. (A) 

40. (C) A fish lives in water; a camel lives in the desert.
 41. (C) Options (A), (B) and (D) have 2 circles and 1 square. Option (C) has 2 squares and 1 circle.

42. (B) The word is : E L E P H A N T
 3rd letter from the left : Count from left
 1st = E, 2nd = L, 3rd = E
 3rd letter from the right : Count from right
 1st = T, 2nd = N, 3rd = A



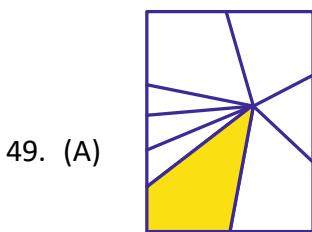
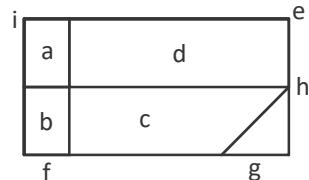
45. (A) The shape in the bottom of the figure is a rectangle in B, C and D options. Whereas in option (A) it is a square.

CRITICAL THINKING

46. (D) After folding, yellow squares cover mirrored positions. E has no yellow square over it, so it is not covered.

47. (A) $18 \text{ m} \div 6 = 3 \text{ m}$
 The distance between every two knots is 3 m.

48. (B) There are 9 rectangles in the given figure



50. (D) Small rabbit is 7 weeks 2 days.
 There are '7' days in a week.
 So, 5 days are needed to become the rabbit '8' weeks old.