



Unified International
Mathematics Olympiad

UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD

CLASS - 2

Question Paper Code : UM9274

KEY

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

EXPLANATIONS

MATHEMATICS

01. (B)

$$\begin{array}{r} 386 \\ + 293 \\ \hline 679 \end{array}$$

02. (C)

$$\begin{array}{r} 205 \\ - 25 \\ \hline 180 \end{array}$$

03. (B) $12 - 4 - 4 - 4 = 0$

04. (B) Option (A) : $500 > 80$
Option (B) : $270 > 192$
Option (C) : $583 < 850$
Option (D) : $209 > 30$

05. (C) Among the options capacity can only be measured in litres.

06. (C) $24 \div 4 = 6$

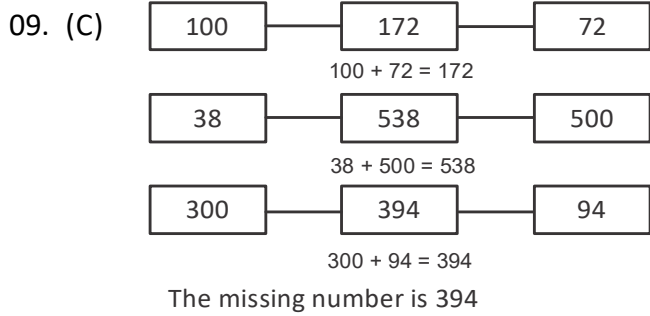
07. (B) $\text{₹ } 80 - \text{₹ } 20 = \text{₹ } 60$

$\therefore 2 \times \text{₹ } 60 = \text{₹ } 120$

08. (B) Aadya weight = 38 kg

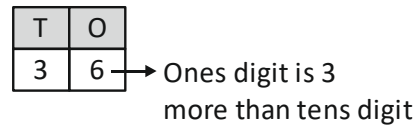
Sita weight = $38 \text{ kg} - 6 \text{ kg} = 32 \text{ kg}$

Reena weight = $32 \text{ kg} + 3 \text{ kg} = 35 \text{ kg}$

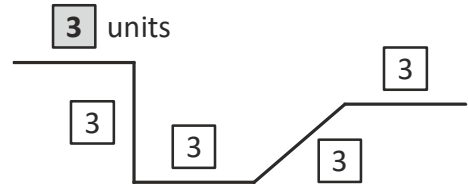


10. (D) Option(A) : 1 flat surface
 Option(B) : 2 flat surface
 Option(C) : 5 flat surface
 Option(D) : 6 flat surfaces(greatest)
11. (D) ₹ 18.50 + ₹ 18.50 = ₹ 37
12. (D) The masses on the left side add up to 14 kg.
 $5 + 5 + 1 + 1 + 1 + 1 = 14$ kg
 On the right side, there are two 500 g, one 1 kg, one 2 kg and the bag of rice.
 $500 + 500 = 1000$ g or 1 kg
 $1 + 1 + 2 = 4$ kg
 Now, 14 kg = Rice + 4 kg
 This means, Rice = $14 - 4 = 10$ kg
 The mass of the bag of rice is 10 kg
13. (C) 3, 9, 15
14. (C) $7 \times 5 = 35$
15. (B) Even numbers : Last digit should be 0, 2, 4, 6, 8
 $132 + 574 = 706$ – Even
 $199 + 321 = 520$ – Even
 $211 + 343 = 554$ – Even
 $613 + 214 = 827$ – Odd
 $230 + 566 = 796$ – Even
16. (C) Option (A) : $6 \times 4 = 24$ (✓)
 Option (B) : $8 \times 3 = 24$ (✓)
 Option (C) : $2 \times 9 = 18$ (✗)
 Option (D) : $3 \times 8 = 24$ (✓)
17. (C) $593 - 260 = 333$

18. (D) $36 = 3 + 6 = 9$



19. (B) $(3 + 3 + 3 + 3 + 3)$ units = 15 units



20. (B) $P = 6$; $Q = 12$

$6 \times 12 = 72$

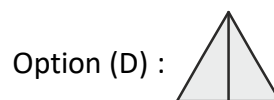
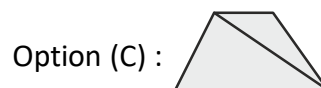
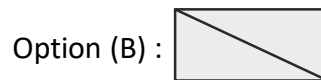
21. (D) Option (A) : $8 + 1 = 8 \times 0$
 $9 = 0$ (✗)

Option (B) : $8 + 1 = 8 \times 1$
 $9 = 8$ (✗)

Option (C) : $8 + 0 = 8 \times 0$
 $8 = 0$ (✗)

Option (D) : $8 + 0 = 8 \times 1$
 $8 = 8$ (✓)



22. (A) Only the shape in option (A) cannot be split into two triangles using a single straight line.



23. (C) June, July, and August together make up three months.

24. (A) The bowl can only hold 750 milliliters, so pouring 1 liter (1000 milliliters).
 Means 1000 ml – 750 ml = 250 ml



26. (B) Each  = 4 l and  = 2 l
 Tank can hold $(4 + 4 + 2) l$ of water
 = 10 l


27. (B) $25 \text{ cm} - 19 \text{ cm} = 6 \text{ cm}$


28. (C) Option (A) : 64


Option (B) : 66

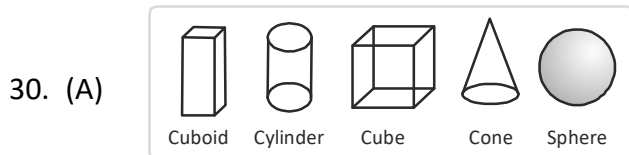
Option (C) : $70 - 9 = 61$

Option (D) : $60 + 2 = 62$

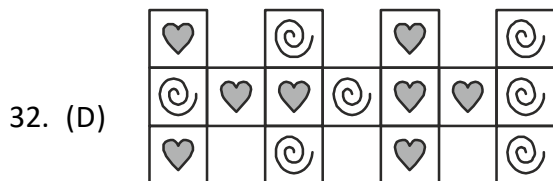
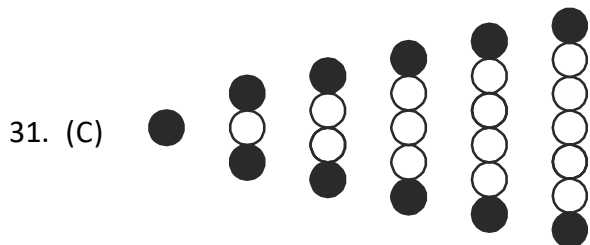
29. (C) In option (A)  = $\frac{600\text{g}}{2} = 300\text{g}$

In option (B)  = $700 \text{ g} - 100 \text{ g} = 600 \text{ g}$

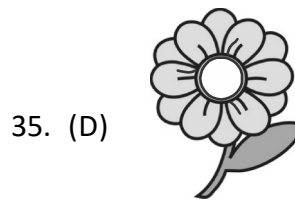
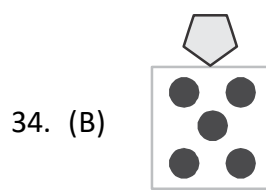
In option (C)  = $700\text{g} - 200 \text{ g} = 500 \text{ g}$



REASONING



33. (D) Lucky = 32; Jani = 17
 Rohan = 2 more tens than lucky
 = $3 + 2 = 5$ tens
 = 5 fewer ones than jani = $7 - 5 = 2$ ones
 \therefore Rohan number = 52



36. (B) AA, BB, C, D, EE, FF, G

