





UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD

CLASS - 4

Question Paper Code : 40109

KEY

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

SOLUTIONS

MATHEMATICS

- 01. (D) A = 0, B = 0, A + B = 0
- 02. (A) $\frac{1}{9}, \frac{1}{7}, \frac{1}{5}, \frac{1}{3}$ are unit fraction & the value increases as the denominator decreases.
- 03. (C) (A) $28 \div 7 = 4 \neq 10 3 = 7$
 - (B) $6 \times 3 = 18 \neq 100 \div 6$
 - (C) 400 + 8 = 408 = 614 206 = 408
 - (D) $4 \times 5 = 20 \neq 4 + 5 = 9$

04. (B) Divided = (Division × Quotient) + Remainder

1954 = (Division × Quotient) + 4

(Division × Quotient)

= 1954 – 4 = 1950

from options

- (A) 5 × 500 = 2500
- (B) 5 × 390 = 1950

5 is P & Q – 390 Respectively

05.	(D)	1:00 - 50 min = 12:10 $12:10 - 3hr = 9 \cdot 10$	15.	(D)
06.	(C)	DAD is not symmetriacal along the		
07	(B)	(A) $3 + 7 10$ (not prime)		
07.	(2)	(B) $3 + 3 = 336$	16.	(C)
		(Prime) & is also a prime	17.	(D)
		(C) $7 + 1 = 8$ (not prime)		
		(D) 512 = 7 (Prime) but 52 is not prime.		
08.	(C)	XC = 90	18.	(C)
		CX = 1110	19	(O)
		increase in value = 110 – 90 = 20	15.	(0)
09.	(D)	(A) $10 \text{ cm} \times 8 \text{ cm} = 80 \text{ cm}^2$		
		(B) $5 \text{ cm} \times 8 \text{ cm} = 80 \text{ cm}^2$		
		(C) $6 \text{ cm} \times 7 \text{ cm} = 42 \text{ cm}^2$		
		(D) $12 \text{ cm} \times 3 \text{ cm} = 36 \text{ cm}^2$	20.	(C)
10.	(D)	24 is not possible value of n because 84 is not divisible by 24.	21	(^)
11.	(C)	30 - (14 - 2 × 3) = 30 - (14 - 6)	21.	(A)
		= 30 - (8) = 30- 8 = 22		
		(A) $30 - 14 - 2 \times 3$		
		= 30 - 14 - 6 = 16 - 6 = 10	22.	(C)
		(B) $(30 - 14) - 2 \times 3$		
		$= 16 - 2 \times 3 = 16 - 6 = 10$	23.	(D)
		(C) $30 - (14 - 6) = 30 - 8 = 22$	24	()
		(D) $30 - 14 - 6 = 16 - 6 = 10$	24.	(B)
12.	(C)	= 1kg – 350g = 650 g		
		e 650 g + 650 g = 1300 g	25	(D)
13.	(A)	2 <i>l</i> 314 m <i>l</i> – 1 <i>l</i> 5 m <i>l</i>	25.	(B)
		2314 m <i>l</i> – 1005 m <i>l</i>		
		= 1309 m <i>l</i>		
		= 1 <i>l</i> 309 m <i>l</i>	26.	(D)
14.	(B)	Converting $\frac{11}{2}$ into mixed fraction is $2\frac{3}{2}$	27.	(B)
	(-)	2		(-)
		$2\frac{3}{4}$ is greater than 2 but less than 3.	28.	(C)
		So $\frac{11}{4}$ is between the numbers 2 & 3.	29.	(D)
			•	

Box B = 2(896) -192 = 1600 Box A = Box B = 1600 + 896 = 2496 $2496 \div 8 = 312$.6. (C) $248 \text{ min} \div 60 = 4 \text{ hrs } 8 \text{ min}$.7. (D) Area = 12 cm \times 8 cm = 96 cm² 12 cm (12 - 4) cm = 8 cm .8. (C) 2 metre = 200 centimetres 9. (D) Deepak memorizes 40 words each morning but forgets 20 by the next night, so he effectively memorizes 20 words per day, To memorize all 400 words, he will need 20 mornings of studying (400 $\div 20 = 20$) 78 × 5 = 390 0. (C) $390 \div 10 = 39$ 1. (A) Smallest 4 digit number multiple of 3 is 1002 Biggest number when rounded off to nearest hundred gives 9000 is 9049. 9049 - 1002 = 8047 2. (C) 31 + 31 = 62= 13 line segments 3. (D) Total bottles = 29 4. (B) Each tray keeps 5 bottles. Least No. of trays required = $29 \div 5$ = 5 + 4 bottle remains = 5 tray + 1 tray = 6 trays5. (B) A = 2160 B = 2160 + 285 = 2445 C = 2160 - 275 = 1885 2160 + 2445 + 1885 = 6490 6. (D) 982.311 × 2.43 = 2387.01573 27. (B) 5 × 7 = 35 $10 \times 7 = 70$ The diff between the place value & the 28. (C) value is 0 $640 \times 4 = 2560$ 9. (D) 1618 + 942 = 2560

Box A = 896





