





UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD (UPDATED)

CLASS - 3

Question Paper Code : UM9264

KEY

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

EXPLANATIONS

03. (C)

MATHEMATICS

- 01. (B) 2185 799 = 1386
- 02. (C) Amount with 3 members = ₹4827 Amount with Farah = ₹1874 Amount with Roshni = ₹1874
 - Total amount with Farah and Roshni

= ₹1874 + ₹1874 = ₹3748

Amount Sony have

= ₹4827 – ₹3748 = ₹1079

Difference between Roshni and Sony

= ₹1874 – ₹1079 = ₹795



121 km + 87 km = 208 km

The total distance between Town X and Town Y is 208 km

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04. (D)	$\frac{1}{4} = \frac{4}{16}$	15. (A)	Adding 4 to each number in 1 st row to get 2 nd row number.		
05. (A)	3 <i>l</i> 500 m <i>l</i> = 3500 m <i>l</i>		12 + 4 = 16, 6 + 4 = 10, 3 + 4 = 7, 5 + 4		
	Capacity of a bucket = 3500 ÷ 5		= 9, 7 + 4 = 11		
	= 700 m <i>l</i>		a = 7, b = 9		
06. (B)	4535 – 4507 = 28	16. (C)	No. of parts the dough divided into = 4		
	Missing number = 4507 – 28 = 4479		No. of parts Devi used = 3		
07. (B)	Total = 207		Fraction of dough Devi used = $\frac{3}{4}$		
	Number of adults in the concert = 180	17. (D)	4 17 lags - 9 lags + 0 lags		
	Number of children = 207 – 180 = 27		17 legs = 8 legs + 9 legs		
	Number of men = 27 + 30 = 57		8 legs = 4 + 4		
	Number of women = 180 – 57 = 123		9 legs = 3 + 3 + 3		
08. (B)	Except Saturday and Sunday Naina works	18. (B)	= 2 chairs and 3 stools		
	for 20 days in the month of February				
09. (B)	The digit 5 appears exactly 16 times are :	19. (B)	372 + 518 = 890		
	5, 15, 25, 35, 45, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64.	20. (A)	$540 - 50 = 840$ $547 = 10 \Rightarrow 47 = 10 \div 5 = 2$		
	So the maximum number of pages the book can have = 64		$3 \bigwedge = 6 \Rightarrow \bigwedge = 6 \div 3 = 2$		
10. (D)	No. of cakes sold on Monday = 396				
	No. of cakes sold on Tuesday = 396 + 370		Then $X X + \triangle \triangle$		
	= 766		$= 2 \times 2 + 2 \times 2 = 4 + 4 = 8$		
11. (D)	Option (D) shows $\frac{2}{2}$ of the shape shaded.	21. (C)	6 × 6 + 12 + 12 + 12 = × 6		
12 (C)	Dictance from the floor to the coiling		36 + 12 + 12 + 12 = × 6		
12. (C)			72 = × 6		
	-520 CIII		= 72 ÷ 6 = 12		
	Height of the ladder	22. (D)	Mass of a sugar packet = 520 g		
	= 228 cm = 150 cm = 160 cm		9 packets = 520 × 9 = 4680 g = 4 kg 680 g		
13. (B)	-320 cm -139 cm -109 cm	23. (C)	$3:45 \xrightarrow{+20\min} 3:65 \longrightarrow 4:05$		
	Mass of Mis. Chaya – 50 kg		(correct time now)		
1/L (P)	No. of cookies with yed = 50		$4:05 \xrightarrow{+1h} 5:05 \xrightarrow{+25min} 5:30$		
14. (D)	No. of cookies he ate - 2		6 6÷2 3		
	No. of cookies left $= 50 = 2 = 48$	24. (D)	$\frac{1}{12} - \frac{1}{12 \div 2} - \frac{1}{6}$		
	No of cookies he nacks in each har - 4				
	No of hags = $18 \div 1 - 12$				
	10. 01 bugs - to . t - 12				

		12 + 4 = 16, 6 + 4 = 10, 3 + 4 = 7, 5 + 4 = 9, 7 + 4 = 11
		a = 7, b = 9
16.	(C)	No. of parts the dough divided into = 4
		No. of parts Devi used = 3
		Fraction of dough Devi used = $\frac{3}{4}$
17.	(D)	17 legs = 8 legs + 9 legs
		8 legs = 4 + 4
		9 legs = 3 + 3 + 3
		= 2 chairs and 3 stools
18.	(B)	2 triangular and 3 rectangular surfaces
19.	(B)	372 + 518 = 890
		890 - 50 = 840
20.	(A)	$5 \cancel{=} 10 \Rightarrow \cancel{=} 10 \div 5 = 2$
		$3 \triangle = 6 \Rightarrow \triangle = 6 \div 3 = 2$
		Then $A + \Delta \Delta$
		$= 2 \times 2 + 2 \times 2 = 4 + 4 = 8$
21.	(C)	6 × 6 + 12 + 12 + 12 = × 6
		36 + 12 + 12 + 12 = × 6
		72 = × 6
		= 72 ÷ 6 = 12
22.	(D)	Mass of a sugar packet = 520 g
		9 packets = 520 × 9 = 4680 g = 4 kg 680 g
23.	(C)	3:45 $\xrightarrow{+20\text{min}}$ 3:65 \longrightarrow 4:05 (correct time now)
		$4:05 \xrightarrow{+1h} 5:05 \xrightarrow{+25min} 5:30$
24.	(D)	$\frac{6}{12} = \frac{6 \div 2}{12 \div 2} = \frac{3}{6}$

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25. (A)	Quantity of juice in 9 glasses \rightarrow 9 × 200 = 1800 m l	35. (A)	15 = 6 +		
	Total quantity of juice poured out $ ightarrow$ 1850 + 1800 = 3650 m l		= 15 - 6 = 9		
	Quantity of juice left $ ightarrow$ 10000 – 3650 = 6350 m l		× 🗡 = 45		
	= 6 <i>l</i> 350 m <i>l</i>		9 × 🗡 = 45		
26. (B)	$\begin{array}{c} +8 \end{array} \xrightarrow{\times 5} 40 \xrightarrow{+8} 48 \xrightarrow{\div 6} 8 \xrightarrow{-5} 3 \end{array}$		(-) = 45 ÷ 9 = 5		
	So, missing number = 8				
27. (A)	1 rupee = 100 paise		<u>REASONING</u>		
	? = 6400 paise				
	6400 ÷ 100 = 64 rupees		A H		
28. (D)	14, 26, 38, 50, 62, 74	36. (B)	G E		
	They give a remainder of 2 when divided				
	DY 3	37. (C)	Rain is only in liquid form mist, cloud and vapour are in gaseous state.		
	$14 \div 3 = 0 = 4, R = 2$				
	$26 \div 3 = Q = 8, R = 2$				
	$38 \div 3 = Q = 12, R = 2$	38. (A)			
	$50 \div 3 = Q = 10, R = 2$				
	$02 \div 3 = 0 = 20, R = 2$		$X \infty $		
29 (B)	74.5 = 0 = 24, 11 = 2		$\land \times \infty$		
23. (8)	$4750 \div 10 = 485$	39. (A)	$(X \land \infty)$		
	3				
30. (B)	<u></u>	40. (A)	There are ten small squares		
31. (C)	Difference between 8121 – 1249 = 6872		two 2 × 2 squares = 2		
	The value of digit 8 in 6872 = 800		two 3 × 3 squares = 2		
32. (B)	Cost of a camera = ₹220		10 + 2 + 2 = 14		
	Cost of a mobile phone				
	= ₹220 ÷ 4 = ₹55				
	Cost of 2 mobile phones				
	= ₹55 × 2 = ₹110				
33. (B)	3:30 pm + 1 hr 30 min	41. (C)	+) =		
	= 4 hrs 60 min = 5'0 clock = 5:00 pm				
34. (C)	100 mm < 50 cm < 2 m				
	So, ascending order is 100 mm, 50 cm, 2 m				

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