



Unified International  
Mathematics Olympiad

**UNIFIED INTERNATIONAL MATHEMATICS OLYMPIAD**

**CLASS - 3**  
**Question Paper Code : 40109**

**KEY**

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

**SOLUTIONS**

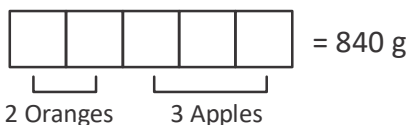
**MATHEMATICS**

01. (B)

Th	H	T	O
1	7	9	8

$$7 > 1$$

02. (D)



$$1 \text{ Apples} = \text{[ ]} + 30 \text{ g}$$

$$\text{[ ]} + \text{[ ]} + \text{[ ]} + 30 \text{ g} + \text{[ ]} + 30$$

$$g + \text{[ ]} + 30 \text{ g} = 840 \text{ g}$$

$$5 \text{ [ ]} + 90 \text{ g} = 840 \text{ g}$$

$$5 \text{ [ ]} = 750 \text{ g} \Rightarrow = 750 \text{ g} \div 5 = 150 \text{ g}$$

$$2 \text{ Oranges} = \text{[ ]} + \text{[ ]} = 150 \text{ g} + 150 \text{ g} = 300 \text{ g}$$

03. (B)  $480 \div 80 = 6$  ;  $4800 \div 80 = 60$

$$48 \div 8 = 6$$
 ;  $4800 \div 8 = 600$

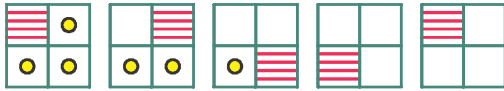
04. (C) In option (C) two parts out of seven are shaded.

05. (C) Among the options, only oval shape has curve lines.

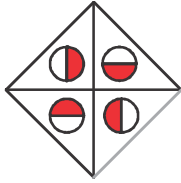
06. (B)  $278 \div 12 = 23$  ; Remainder 2  
 $23 + 1 = 24$   
 The least number of boxes is 24 boxes.
07. (A)  $1000 - 200 = 800$
08. (D)  $10 : 35 \text{ Pm to } 12 : 00 \text{ mid night}$   
 $= 85 \text{ minutes}$   
 $12 : 00 \text{ noon to } 1 : 15 \text{ Am} = 75 \text{ minutes}$   
 $85 \text{ min} + 75 \text{ min} = 160 \text{ min}$
09. (D)  $\text{Rs. } 63 + \text{Rs. } 18 = \text{Rs. } 81$   
 $\text{Rs. } 81 \div 9 = \text{Rs. } 9$
10. (D) Odd numbers between 18 & 26 are  
 19, 21, 23, 25  
 $\text{Sum} = 19 + 21 + 23 + 25 = 88$
11. (D) 1 whole = 4 quarters  
 5 wholes =  $5 \times 4$  quarters  
 $= 20$  quarters
12. (B) String = 370 cm  
 Ribbon =  $370 \text{ cm} - 164 \text{ cm} = 206 \text{ cm}$   
 Total length of string and ribbon  
 $= 370 \text{ cm} + 206 \text{ cm}$   
 $= 576 \text{ cm} = 5 \text{ m } 76 \text{ cm}$
13. (B)  $12 : 53 \text{ pm} + 15 \text{ hours} = ?$   
 $15 \text{ hours} = 12 \text{ hours} + 3 \text{ hours}$   
 $12 : 53 \text{ pm} + 12 \text{ hours} = 12 : 53 \text{ am}$   
 $12 : 53 \text{ am} + 3 \text{ hours} = 3 : 53 \text{ am}$
14. (A) Among the options 8319 is the smallest odd number.
15. (B) All numbers from 4450 to 4549 is 4500 when rounded off to the nearest hundred 4549 is the greatest among the numbers.
16. (A)  $45 \text{ months} \div 12 \text{ months} = 3$  complete years and 9 months
17. (B)  $8 \times 4 = 8 + 8 + 8 + 8$
18. (D) Manish = 4873  
 Vishal =  $4873 - 1904 = 2969$   
 $4873 + 2969 = 7842$
19. (B)  $1 + 1 = 2$   
 $1 - 1 = 0$   
 $2 \neq 0$
20. (B) Cube has exactly 6 square faces, all of equal size.
21. (C) 1 cup = 375 g  
 $6 \text{ cups} = 6 \times 375 = 2250 \text{ g}$
22. (C)  $21 + 18 = 39$   
 $39 \times 5 = 195$
23. (A) Amount spent by Nikhil = Cost of ticket + Cost of cap + Cost of cold drink + Donation made  
 $= 200 + 50 + 20 + 50 = \text{Rs. } 320$   
 Nikhil had =  $\text{Rs. } 800$   
 Amount spent by him =  $\text{Rs. } 320$   
 $\therefore$  Money spent by him =  $\text{Rs. } 320$   
 $\therefore$  Money left with him =  $\text{Rs. } 800 - \text{Rs. } 320 = \text{Rs. } 480$
24. (C)  $9 \times 3 = 27$
25. (C)  $365 \times 2 = 730$   
 $730 - 258 = 472$
26. (C)  $\frac{2 \times 2}{5 \times 2} = \frac{4}{10}$
27. (A)  $\frac{\text{Rs. } 50}{\text{Rs. } 5} = 10$
28. (B) Andrew brother have stickers  
 $= 8 \times 5 = 40$   
 $40 - 8 = 32$
29. (C)  $2000 \text{ ml} - 1050 \text{ ml} = 950 \text{ ml}$
30. (D)  $6 \times 10 \text{ stamps} = 60 \text{ stamps(used)}$   
 $68 - 60 = 8$
31. (C) Cone
32. (A)  $\text{Rs. } 250.04 - \text{Rs. } 97.98 = \text{Rs. } 152.06$
33. (B)  $5080 \text{ m} - 3500 \text{ m}$   
 $= 1580 \text{ m} = 1 \text{ km } 580 \text{ m}$
34. (A) Stick A = 305 cm  
 Stick B =  $(305 \text{ cm}) \times 2 = 610 \text{ cm}$   
 Stick C =  $610 \text{ cm} - 350 \text{ cm} = 260 \text{ cm}$   
 Difference in length between stick A and Stick C =  $305 \text{ cm} - 260 \text{ cm} = 45 \text{ cm}$
35. (C)  $800 - (3 \times 9) = 800 - 27 = 773$

**REASONING**

36. (C)



37. (B)



38. (B)

A forest is made up of many trees, just as a school is a group of fish swimming together.

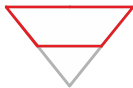
39. (C)

option c is the 'odd one out'. In the other 3 images, the number of sides of the image is equal to the number of equal parts drawn inside the circle of the same image. Only in option C, the bigger image (pentagon) has 5 sides but the circle inside the pentagon has 4 equal parts.

40. (B)

"Banana," "Grape," and "Orange" are arranged correctly in alphabetical order by their first letters.

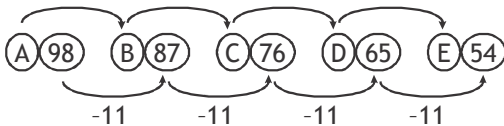
41. (C)



42. (C)

In the given group the shape must have straight lines only.

43. (B)



E54 is the missing term in the given series.

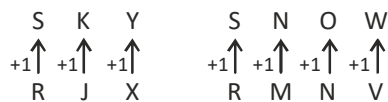
44. (C)

$$17 + 20 = 37$$

$$21 + 32 = 53$$

$$41 + 26 = 67$$

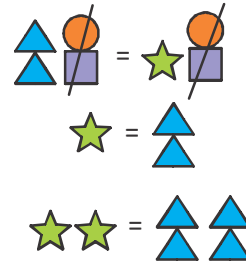
45. (B)



The last letter of coded word for SNOW (i.e.,w) is V.

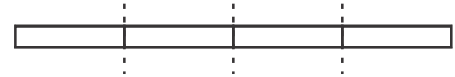
**CRITICAL THINKING**

46. (D)



47. (C)

Peter needs to saw the plank of wood three times.



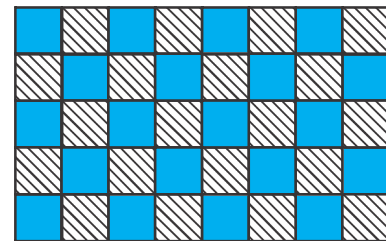
$$3 \times 5 \text{ min} = 15 \text{ min}$$

Peter will take 15 minutes to saw a plank of wood of the same length up four pieces.

48. (D)



49. (C)



50. (A)

The final answer is:

	Vanilla	Mango	Chocolate
John	✓	✗	✗
Madhu	✗	✗	✓
Vasu	✗	✓	✗