UNIFIED COUNCIL

An ISO 9001:2008 Certified Organisation

UCO Unified Cyber Olympiad

UNIFIED CYBER OLYMPIAD - UC 336

Solutions for class : 3

Mental Ability

1. **(B)** Total mass kept = 400g
Mass of the basket = 130g
So, mass of the apples
= (400 – 130)g = 270 g

2. **(C)**

195	1000	999	418
+17	–247	–48	+514
212	753	951	932

∴ So only option (C) is correct.

3. **(A)** Total paint in tin = (2l + 4l + 3l) = 9l
Paint used by Vaishnavi
$= \left(\frac{1}{2} of\ tin\ X\right) + \left(\frac{1}{2} of\ tin\ Y\right)$
= 1l + 2l = 3l
∴ Left out paint = (9 – 3)l = 6l.

4. **(B)** Clearly option (B) is $\frac{3}{4}$ shaded.

5. **(B)** Total biscuit = 500
Biscuits eat everyday = 10
∴ Number of days, it last = $\frac{500}{10} = 50$

6. **(C)** $40 \div 5 = 8$ and $2 \times 4 = 8$
∴ $40 \div 5 = 2 \times 4 = 8$

7. **(C)** Oranges with Shyam = 21
Number of oranges left with him
= 21 – 12 – 4 = 5
∴ Oranges left with Shyam = 5
Oranges needed to make total 18 = 18 – 5 = 13.

8. **(B)** Total bottles = 29
Each tray keeps 5 bottles.
Least No. of trays required = 29 ÷ 5
= 5 + 4 bottle remains
= 5 tray + 1 tray = 6 trays

9. **(D)** Distance covered by rat = (100 + 200) m
= 300 m

10. **(C)** $\frac{2}{12} = 0.166$ $\Rightarrow \frac{6}{12} = 0.5$
$\Rightarrow \frac{3}{4} = 0.75$ (largest) $\Rightarrow \frac{3}{9} = 0.33$
So, largest fraction is $\frac{3}{4}$.

11. **(C)** Cost of 2 apples = ₹12
⇒ Cost of 1 apple = ₹ 6
Cost of (apple + strawberry) = ₹ 10
⇒ Cost of 1 strawberry = 10 – 6 = ₹ 4
Now, cost of mango + strawberry = ₹ 16
⇒ Cost of mango = 16 – 4 = ₹ 12

12. **(D)** 1 week = 7 days
∴ 61 days = $7\overline{)\begin{array}{r}\textbf{8 weeks}\\ 61\\ 56\\ \hline \textbf{5 days}\end{array}}$
∴ 61 days = 8 weeks 5 days.

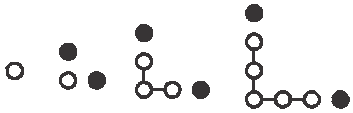
13. **(C)** $= \frac{1}{4} \times (32) = 8$

14. **(D)** 5 hr. 49 min = (300 + 49) min = 349 minutes
3 hr. 44 min = (180 + 44) min = 224 minutes
∴ Total $\begin{array}{r}349\\ +224\\ \hline 573\end{array}$ minutes $= 60\overline{)\begin{array}{r}\textbf{9}\\ 573\\ 540\\ \hline \textbf{33}\end{array}}$
= 9 hours 33 minutes.

15. **(B)** Amount pay by 10 children = ₹ 8
⇒ Amount pay by 100 children = $\frac{8}{\cancel{10}} \times \cancel{100}$
= ₹ 80

Reasoning

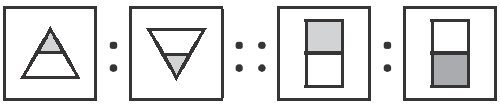
16. **(A)** *T U V W X Y Z*

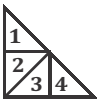
17. **(D)** 

18. **(C)** *C → y;* *L → m;* *I → b;*
F → n; *F → n*

19. **(C)** *Eye balls are not in same direction.*

20. **(D)** *Option D is not a string instrument.*

21. **(C)** 

22. **(C)** 

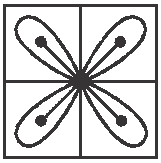
Single triangles: *1, 2, 3, 4* *= 4*

2 regions: *1+2, 3+4* *= 2*

4 regions: *1 + 2 + 3 + 4* *= 1*

Total: *4 + 2 + 1 = 7.*

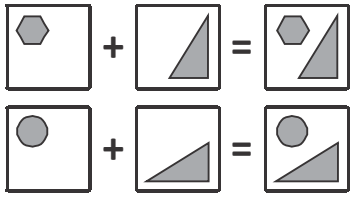
23. **(A)**

24. **(D)** 

25. **(C)** *R =* ✸; *A =* △; *T =* ⌑
C = ⊙; *A =* △; *T =* ⌑
C = ⊙; *A =* △; *R =* ✸

26. **(C)** *17 + 20 = 37*
21 + 32 = 53
41 + 26 = 67

27. **(B)** *Option B exactly matches the given shape.*

28. **(B)** 

29. **(C)** *They are the planets nearest to the earth.*

30. **(A)** *20* *19* *17* *14*
-1 ***-2*** ***-3***

Computers

31. **(D)** 32. **(B)** 33. **(A)** 34. **(B)** 35. **(A)**
36. **(B)** 37. **(A)** 38. **(B)** 39. **(C)** 40. **(C)**
41. **(A)** 42. **(B)** 43. **(B)** 44. **(A)** 45. **(C)**

English

46. **(D)** 47. **(C)** 48. **(D)** 49. **(A)** 50. **(C)**

The End