UNIFIED CYBER OLYMPIAD

Solutions for Sample Questions
class : 6

Mental Ability

1. **(A)** H.C.F. (429, 715) = 143

∴ The number of children must be **143**.

2. **(C)** $\frac{2}{3} = \frac{20}{30}$

$\frac{5}{6} = \frac{20}{24}$

$\frac{20}{30}$ of Lahari's money = $\frac{20}{24}$ of Tanya's money

Lahari has 30 units of money.

Tanya has 24 units of money.

(30 + 24) ÷ 2 = 27 units

30 – 27 = 3 units

Lahari must give 3 units of her money to Tanya.

$\frac{3}{30} = \frac{1}{10}$

Lahari must give $\frac{1}{10}$ of her money to Tanya.

3. **(C)**

P : Q + R	P + Q : R
1 : 3	4 : 1
5 : 15	16 : 4

P	:	Q	:	R
5	:	**11**	:	**4**

4. **(C)** Area of shaded triangle = $\frac{1}{2} \times 14 \times 5$

= 35 m²

Area of rectangle PQRS = 35 × 6
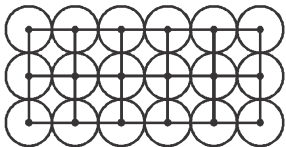
= **210 m²**

5. **(A)**

Computer Club	0.2			
Art Club	0.5		27	

3 units ⟶ 27

1 unit ⟶ 27 ÷ 3 = 9

5 units ⟶ 5 × 9 = 45

2 units ⟶ 2 × 9 = 18

There are **45 pupils** in Computer Club and 18 pupils in Art Club.

Reasoning

6. **(C)** After rotating the figures, you will see that figures (A), (B) and (D) are the same.

Only (C) is the different from the rest.

7. **(A)** $\frac{15 + 17}{4} = 8, \frac{41 + 23}{4} = 16$

Similarly, $\frac{19 + 25}{4} = \mathbf{11}$

8. **(C)** 18 ÷ 3 × 9 – 8 + 6 = **52**

∴ The required value is **52**.

9. **(C)** 4 × 3 × 2 × 2 = 48

4 × 1 × 7 × 2 = 56

Similarly, 7 × 6 × 1 × 5 = 210

∴ The required number is **210**.

10. **(B)**

Figure formed by joining the centres is

∴ The number of squares formed are **14**.

Computers	English
11. **(A)** RAM can perform **read and write** operations.	16. **(B)** Krithi does not like flowers as she has **anthophobia.**
12. **(B)** The process of connecting computers together to share resources is known as **networking**.	17. **(C)** Similar meaning of 'copy the behaviour of' is **'to imitate'**.
13. **(D)** In MS-Word, **Thesaurus** will give the synonym of any word.	18. **(C)** Honey – comb
14. **(D)** Secondary storage device is used to store data or information into computer.	*1* *6*
15. **(A)** **1 KB = 1024 bytes**	19. **(B)** **Controversy** is the correct spelling.
1 MB = 1,048,576 bytes (or) 1,024 KB	20. **(C)** The idiom that replaces the underlined words is **'Catch forty winks'**.