

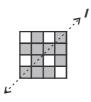


UNIFIED CYBER OLYMPIAD

<u>Solutions for Sample Questions</u> <u>class : 8</u>

Mental Ability





2. **(A)**

20142015 × 20152014 – 20142014 × 20152015

= 20142015×20152014 - (20142015 - 1)(20152014 + 1)

= 20142015 × 20152014 -(20142015 × 20152014 + 20142015 -20152014 - 1)

= -20142015 × 20152014 - 20142015 × 20152014 - 20142015 + 20152014 + 1) = 10000

3. **(A)** $\frac{(856 + 167)^2 + (856 - 167)^2}{856 \times 856 + 167 \times 167}$ $= \frac{2(856^2 + 167^2)}{856^2 + 167^2} = 2$

[since, $(a + b)^2 + (a - b)^2 = 2(a^2 + b^2)$]

4. **(C)** No. of times a die is thrown = 24

Probability for '4' to come up when a die is

thrown once = $\frac{1}{6}$

.. If a die is thrown for 24 times the possibility for 4 to come up = $\frac{1}{6} \times 24$ = 4 times Therefore, **-3** must be subtracted.

Reasoning

6. **(A)** The given series is repeating after every five shapes and the shading moves by one shape towards left. Hence, the missing shape is



7. **(D)** Count the number of lines in each figure.

 \times \longrightarrow / \square \times 2 lines 5 lines 1 line 4 lines 3 lines

4 lines 1 line 3 lines 2 lines 5 lines

3 lines 2 lines 5 lines 1 line 4 lines

1 line 3 lines 4 lines 2 lines 4 lines option (D) is the odd one out.

3. **(D)** In the given group, the figure in third column is obtained by subtracting the figures in the first column from the second column figures

Hence, the missing figure is option (D).





10. *(A)* Line type: A - Vertical; B - Horizontal; C - Diagonal

Square type: P - Small ; Q - Large; R - medium

.. The code for the last figure is **AR**.

Computers

11. **(D)** The largest heading in HTML tag is **<h1>**.

English

- 16. **(C)** 'A puzzling question' means riddle. The rhyming word of the riddle is **middle**.
- 17. **(A)** One who collects coins is known as **Numismatist**.
- 18. **(B)** Fatigue means weariness.
- 19. **(B)** Inevitable × Evitable

