

CLASS IX

SUMMER HOLIDAY HOMEWORK

ENGLISH

Summer in Kolkata

Write about 4 events taking place in Kolkata during your vacations. You may refer to the newspaper / you may have attended the event in person.

HINDI

- 1) Learn Bilom & Paryayvachi.
- 2) In your copy write Prose & Poetry which you have not done yet in your class.
- 3) Write a letter to your younger brother by giving suggestions how to study sincerely.

BENGALI

- 1) 'AGNIDEBER SHAJJA' study and do questions answers.
- 2) Bakya paribartan kora.
- 3) 'AAM ATHIR BHEPU' Revise 1 TO 6 adhay
- 4) In an Inland letter write to your school friend what things you did during summer vacation and then post it.

MATHS

- 1) if $2 = 1.414$, find the value of $\frac{1}{2 + 1}$
- 2) $x = 9 - 4 \cdot 5$, find the value of $x - \frac{1}{x}$
- 3) Select the correct alternative.
If $x = 3 + 2$, then $x^2 + \frac{1}{x^2}$
i) 23 ii) 12 iii) 10 iv) 14
- 4) if $\frac{3 + 2 \cdot 2}{3 - 2} = a + b \cdot 2$, find a and b given that
a and b are rational number

5) Simplify

$$\frac{6}{2\sqrt{3} - \sqrt{6}} + \frac{\sqrt{6}}{\sqrt{3} + \sqrt{2}} - \frac{4\sqrt{3}}{\sqrt{6} - \sqrt{2}}$$

6) Represent $\sqrt{5}$ and $\sqrt{3.5}$ on the number line

7) if $x = \frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}$ and $y = \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$

Find $x^2 + y^2$

8) Express the following in the form $\frac{P}{Q}$

(i) $0.00\overline{352}$ (ii) $15.\overline{712}$ (iii) 0.621