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Class IX /Assignment 1   30 March 2020

ENGLISH LANGUAGE:

ASSIGNMENT-1

Insert appropriate Prepositions in the spaces left blank:

1. His brother was accused _____theft.
2. I am very angry _____his misconduct.
3. He is seldom attentive____his lessons.
4. A son was born____her.
5. Give me change____a rupee.
6. He complains____pain in the head.
7. I congratulate you____your brilliant success.
8. He deals___computer software .
9. My brother excels me____music.
10. Never be false____your friends.
11. He was found guilty____murder.
12. He is the only heir____his father's property.
13. Everything is known____me.
14. He is liable____expulsion from school.
15. A brave man prefers death__dishonour.
16. He pretended not____notice.
17. I searched____my book.
18. Mohan is slow____speech.
19. His brother is slow____ arithmetic.
20. The plane flew _____the mountains.

ASSIGNMENT- 2

Convert the following from Direct to Indirect :
1. He said, "I wrote a letter".
2. He said, "It was blowing hard at six".
3. He said, "I am too ill to speak now".
4. He said, "The evil that men do lives after them."
5. He said to me, "Thank you."
6. He said to me, "Why did you strike him?"
7. The mother said to her daughter, "Do you know where Prem is?"
8. The teacher said to the boys, "Work hard and steadily."
9. The father said to the son , "Do not go to the cinema daily. "
10. He said, " Let me go."

Suggestive reading for audibles:

The Mystery of Alice – Lee Bacon

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HINDI:

1. विलोम – अधम–आग्रह (पृ0–259)
2. पर्यायवाची– अंक–अज्ञ (पृ0–251)
3. भाववाचक संज्ञा– अतिथि–निज (पृ0–221)
    नोट– समस्त कार्य याद करें व भाशा उत्तर पुस्तिका (स्ंदहनंहम दवजम
    इववा) में लिखें।

MATHS:

EXPANSION AND SUBSITUTION

Using $(a + b)^2$, $(a - b)^2$ expand the following:

Q1 a) $(x + 2y)^2$ b) $(4a - b)^2$ c) $(3x + 5y)^2$ d) $(2x - 3y)^2$ e) $\left(x + \frac{1}{x}\right)^2$

f) $\left(x - \frac{1}{x}\right)^2$ g) $\left(a + \frac{1}{2a}\right)^2$ h) $\left(2a - \frac{1}{4a}\right)^2$ i) $\left(x^2 - \frac{1}{x^2}\right)^2$ j) $\left(x^3 + \frac{1}{x^3}\right)^2$

k) $\left(x^2 + \frac{1}{x}\right)^2$ l) $\left(x - \frac{2}{x^2}\right)^2$

Q2 If $x + y = 10$, $xy = 21$, find the value of $x^2 + y^2$

Q3 If $3x - 4y = 16$ and $xy = 4$, find the value of $9x^2 + 16y^2$.

Q4 If $x + \frac{1}{x} = 3$, $find$ $x^2 + \frac{1}{x^2}$.

Q5 If $a^2 + b^2 = 13$ and $ab = 6$. Find   i) $(a + b)$ ii) $(a - b)$

FACTORISATION

Q6 Factorise by taking out <u>common factor</u>
   a) $8xy^3 + 12x^2y^2$
   b) $18m + 16n$
   c) $18p^2q^2 - 24pq^2 + 30p^2q$

Q7 Factorise by <u>grouping</u> the terms:
   a) $x^2 + xy - x - y$
   b) $x^3 - 3x^2 + x - 3$
   c) $2a - 4b - xa + 2bx$

Q8 Factorise using the <u>identity</u> $a^2 - b^2 = (a + b)(a - b)$
   a) $4x^2 - 169y^2$
   b) $150 - 6a^2$
   c) $32 x^2 - 18y^2$

Q9 Factorise the given expression:
   a) $x^2 + 5x + 6$
   b) $a^2 - 3a - 54$
   c) $2x^2 + x - 45$