Mathematics - Class 6

Algebra

1. The value of the expression $\frac{n^2}{2} + \frac{n}{2}$ when n = 12 is @ 76@ 74@ 78@ 72@ 0010 2.If $\overline{3}^{-6}$ is a polynomial, then the zero of the polynomial is@1/2@-1/2@0@-2@10003. If the zero of the polynomial in 'x' is -5/4, then the polynomial is@ 4x - 5@ 5x - 4@5x + 4@4x+5@0010 4.If A = -8x < sup > 2 < /sup > -6x + 10, then its value when 'x' = 1/2 is@6@4@5@7@0010 5. The third degree polynomial among the following is @ $2x \le sup > 3 - 1 \le sup > 4 + 3x \le sup > 2 - 1 \le sup > 4$ 5@3x < sup > 4 - 1 < / sup > + 2x < sup > 3 - 1 < / sup > + 6x < sup > 2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > + 8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 - 1 < / sup > +8 @3x < sup > -2 -1 < / sup > +8 @3x < sup > -2 -1 < / sup > +8 @3x < sup > -2 -1 < / sup > +8 @3x < sup > -2 -1 < / sup > +8 @3x < sup > -2 -1 < / sup > +8 @3x < sup > -2 -1 < / sup > +8 @3x < sup > -2 -1 < / sup > +2 < sup > -2 <+4x < sup > -2 < /sup > +5 @2x < sup > 5 -3 < /sup > +3x < sup > 4 -3 < /sup > +7 @01006. Among the following the expression which is not a monomial is@ $_{x < sup} > 3 < /sup >_{y < sup} > 2 < /sup >_{@} \frac{2}{7} x^{-2} y^{5} z_{@x} 3_{y} 5_{z} 12@0010$ 7.If, $\mathbf{x} = \frac{\mathbf{a}}{2}$ then the value of $4x < \sup > 2 < /\sup > + 8x + 18$ is@ $a < \sup > 2 < /\sup > + 2a + 8$ @ $a < \sup > 2 < /\sup >$ +3a + 18@a < sup > 2 < / sup > +4a + 18@a < sup > 2 < / sup > +5a + 18@00108. The value of the expression $\frac{1}{3} = \frac{1}{27}$ when $x = \frac{1}{3}$ is $\frac{1}{3} = \frac{1}{3}$ is $\frac{1}{3} = \frac{1}{3}$ is $\frac{1}{3} = \frac{1}{3}$ is $\frac{1}{3} = \frac{1}{3}$ 9. Degree of the polynomial $p + q \times sup > m < /sup > + rx < sup > m + 2 < /sup > + 5x < sup > m + 3 < /sup > + 3 < /sup$ x < sup > m + 4 < / sup > is @ m@ m + 2@m + 3@m + 4@0010represents sum of the squares of first 'n' natural numbers, then its value when n = 1010.If is@ 365@ 375@395@385@0001 11. Degree of the polynomial $\frac{1}{2}x^5 + 3x^4 + 2x^3 + 3x^2 + 6$ is @4@3@5@2@0010 12.Degree of the monomial $\frac{3}{5} x^2 y^6 z^7$ is@15@9@8@13@1000 13.In a polynomial 3x + 5 where x = a + 2, then its value when a = 8 is@ 25@ 45@35@40@0010 14. The sum of $\frac{3}{4}x^3$, $\frac{5}{6}x^3$, $-\frac{2}{3}x^3$ and $\frac{7}{2}x^3$ is @ $\frac{12}{53}x^3$ @ $-\frac{53}{12}x^3$ @ $\frac{53}{12}x^3$ @ $-\frac{12}{53}x^3$ @0010 15. The simplified form of 3x < sup > 3 < /sup > -2x < sup > 2 < /sup > -8x -6x < sup > 2 < /sup > +7x < sup > 3 < /sup > + 9x + 8x < sup > 3 < /sup > - 9x < sup > 2 < /sup > + 6x is @ - 18x < sup > 3 < /sup > - 9x < sup > 18x < sup > 3 < /sup > - 9x < sup > 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 < /sup > - 18x < sup > 3 <17x < sup > 2 < /sup > -7x@18x < sup > 3 < /sup > -17x < sup > 2 < /sup > +7x@010016. The ascending order of the polynomials $-3x \le sup > 3 \le sup > 4 \le sup >$ 6x - 8 is@-8 + 6x + 7x < sup > 2 < /sup > -3x < sup > 3 < /sup > +9x < sup > 4 < /sup > @ -8 - 6x - 10 < sup > 10 < s7x < sup > 2 < /sup > -3x < sup > 3 < /sup > -9x < sup > 4 < /sup > @ -8 + 6x + 7x < sup > 2 < /sup > -

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3x < sup > 3 < /sup > -9x < sup > 4 < /sup > @8 + 6x + 7x < sup > 2 < /sup > +3x < sup > 3 < /sup > +
                                                                9x<sup>4</sup>@1000
 17.If A = -7x - 3x - 5x and B = 9x + 3x + 2x, then A + B is @ 2x @ -2x@ - x@ - 3x@ 0010
 18.If, \frac{1}{2}x - \frac{1}{3}x = A and \frac{1}{3}x - \frac{1}{4}x = B then A - B is @ 1/12x@-1/12x@-2x@0@1000
 19. The \ equivalent \ expression \ of \ 2x < sup > 3 < /sup > -3x < sup > 2 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < /sup > -8x - 3 \ is @3x < sup > 3 < sup >
                                                                5x < \sup > 3 < /\sup > + 7x < \sup > 2 < /\sup > - 5x < \sup > 2 < /\sup > - 8x + 10x - 4 + 1 @3x < \sup > 3 < /\sup > - 8x + 10x - 4 + 1 (2x + 1) = 10 
                                                                x < \sup > 3 < /\sup >_- 5x < \sup > 2 < /\sup >_+ 2x < \sup > 2 < /\sup >_- 9x + x - 7 + 4@4x < \sup > 3 < /\sup >_-
                                                                6x < sup > 2 < / sup > -3x < sup > 3 < / sup > +3x < sup > 2 < / sup > +x < sup > 2 < / sup > -9x + 3x + 6 - 2 < < sup > 2 < / sup > -9x + 3x + 6 - 2 < < sup > 2 < / sup > -9x + 3x + 6 - 2 < < sup > 2 < / sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 3x + 6 - 2 < sup > -9x + 6 < 
                                                                3@4x < sup > 3 < / sup >_{-} 2x < sup >^{3 < / sup >_{+}} 3x < sup >^{2 < / sup >_{-}} 5x < sup >^{2 < / sup >_{-}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 4 - 3x < sup >^{2 < / sup >_{+}} 8x + 6x + 6x < sup >^{2 < / sup >_{+}} 8x + 6x < sup >^{2 < / sup >_{+}} 8x + 6x < sup >^{2 < / sup >_{+}} 8x + 6x < sup >^{2 < / sup >_{+}} 8x + 6x < sup >^{2 < / sup >_{+}} 8x < sup >^{2 < / sup >_{+}} 8x + 6x < sup >^{2 < / sup >_{+}} 8x < sup >^{2 < / 
                                                                 1@1000
 20. The descending order of 4x < sup > 2 < /sup > _ 9x < sup > 3 < /sup > _ 4x < sup > 2 < /sup > _ 9x < sup > 4 < /sup > _ 4x < sup > 2 < /sup > _ 6x < sup > 6x <
                                                                3x < \sup > 3 < \sup > 4 <
                                                                2x < \sup > 2 < /\sup > + 3x + 2 @ -9x < \sup > 4 < /\sup > -6x < \sup > 3 < /\sup > + 2x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x + 2 @ -9x < \sup > 2 < /\sup > -3x < \sup > 2 < \sin 2
                                                                9x < \sup > 4 < \sup > -6x < \sup > 3 < \sup > -2x < \sup > 2 < \sup > +3x + 2@ -9x < \sup > 4 < \sup > +
                                                                6x < \sup > 3 < \sup > 2 < \sup > 2 < \sup > + 3x - 2 @0010
 21. If \ \ \frac{\textbf{7}}{\textbf{5}}\textbf{x}^{\textbf{3}} + \frac{\textbf{3}}{\textbf{4}}\textbf{x}^{\textbf{3}} + \frac{\textbf{7}}{\textbf{2}}\textbf{x}^{\textbf{3}} + \frac{\textbf{9}}{\textbf{3}}\textbf{x}^{\textbf{3}} \text{ is added to , then the } \frac{\textbf{9}\textbf{x}^{\textbf{3}}}{\textbf{60}} \text{ result is} @ - 6x < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < / sup > @ < sup > 3 < sup 
                                                                 6x < \sup 3 < \sup @60x < \sup 3 < \sup @16x < \sup 3 < \sup @100
22. If 2x - 3x + 5x = P, Q = -8x + 3x + 9x and R = -8x - 6x - 7x, then (P + Q) - R is @ 27x@
                                                                 28x@29x@26x@0010
 23. If A = -3x < sup > 3 < /sup > -2x < sup > 3 < /sup > +4x < sup > 2 < /sup > -2x < sup > 2 < /sup > , B = -1 < sup > 3 < /sup > +4x < sup > 3 < sup > 
                                                                3x < \sup > 2 < /\sup > + 5x < \sup > 2 < /\sup > - 8x + 3x and C = 2x - 9x - 7 + 8, then A + B + C in simplified
                                                                form is@-5x < sup > 3 < /sup > + 4x < sup > 2 < /sup > - 12x + 1@ 5x < sup > 3 < /sup > - 3x < sup > 2 < /sup > - 12x + 1@ 5x < sup > 3 < /sup > - 3x < sup > 2 < /sup > - 3x < sup > 2 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < /sup > - 3x < sup > 3 < sup 
                                                                 12x + 1@-5x < sup > 3 < /sup > -4x < sup > 2 < /sup > -12x - 1@5x < sup > 3 < /sup > +3x < sup > 2 < /sup > 2 < /sup > +3x < sup > 2 < /sup > 2 < /sup > +3x < sup > 2 < /sup > 2 < /sup > +3x < sup > 2 < /sup > 2 < /sup > +3x < sup > 2 < /sup > 2 < /sup > +3x < sup > 2 < /sup > 3 < /sup > 3
                                                                 12x + 1@1000
 24. If \ 4x < \sup >^{3 </ \sup >_{y < \sup >^{2 </ \sup >_{+}} 3x < \sup >^{2 </ \sup >_{y < \sup >^{3 </ \sup >_{-x < \sup >^{2 </ \sup >_{y < \sup >^{5 </ \sup >_{+}} 3x < \sup >^{5 </ \le y >_{+}} 3x < y >_{+}}} 
                                                                is added -9x < sup > 2 < /sup > y < sup > 3 < /sup > + 6x < sup > 2 < /sup > y < sup > 5 < /sup > _
                                                                9x < \sup > 3 < \sup > y < \sup > 4 < \sup >, then the result is@ 4x < \sup > 3 < \sup > y < \sup > 2 < \sup >
                                                                 +5x < \sup > 2 < /\sup >_{y < \sup > 3 < /\sup >_{-} 2x < \sup > 2 < /\sup >_{y < \sup > 5 < /\sup >_{-}}
                                                                9_{x}<\!\!\sup>\!\!3<\!\!\sup>\!\!y<\!\!\sup>\!\!4<\!\!\sup>\!\!(a)\!\!4_{x}<\!\!\sup>\!\!3<\!\!\sup>\!\!y<\!\!\sup>\!\!2<\!\!\sup>\!\!-1
                                                                6x < sup > 2 < /sup > y < sup > 3 < /sup > -2x < sup > 2 < /sup > y < sup > 5 < /sup > -
                                                                9_{x}<\!\!\sup>\!\!3<\!\!\sup>\!\!y<\!\!\sup>\!\!4<\!\!\sup>\!\!(@4x<\!\!\sup>\!\!3<\!\!\sup>\!\!y<\!\!\sup>\!\!2<\!\!\mid\!\!\sup>\!\!-1
                                                                6x < sup > 2 < /sup > y < sup > 3 < /sup > + 2x < sup > 2 < /sup > y < sup > 5 < /sup > _
                                                                9_x < \sup > 3 < \sup > y < \sup > 4 < \sup > (-4_x < \sup > 2 < \sup > y < \sup > 2 < \sup > 1 < \sup > 2 < \sup 
                                                                9_{x \le \sup} 3 \le \sup_{y \le \sup} 4 \le \sup 0100
 25. If 0.5 x < sup > 3 < /sup > + 1.85 x < sup > 3 < /sup > + 2.96 x < sup > 3 < /sup > - 4.71 x < sup > 3 < /sup > is added to 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < /sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 1.85 x < sup > 3 < sup > 1.85 x < sup > 1.85 x < sup > 1.85 x
                                                                (1.25 \text{ x} < \text{sup})^{4 < /\text{sup}} - 2.5 \text{x} < \text{sup})^{5 < /\text{sup}} + 3.6 \text{x} < \text{sup})^{4 < /\text{sup}} - 4.71 \text{x}^{1}D), then the result is@
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 $0.6x^3 + 2.36x^4 @ -0.6x^3 - 2.36x^4 @ 0.6x^3 - 2.36x^4 @ -0.6x^3 + 2.36x^4 @ 0010 \\$

- 26.If B = $-9x < \sup^{2 < \sup} + 3x 7$, then the additive inverse of B is@ $9x < \sup^{2 < \sup} 3x 7@9x < \sup^{2 < \sup} 3x + 7@9x < \sup^{2 < \sup} 3x 7@9x < \sup^{2 < \sup} + 3x + 7@0100$
- $27. If \ A = \frac{\textbf{-3x^2}}{\textbf{4}} + \frac{\textbf{2}}{\textbf{3}} \textbf{x} + \textbf{7} \text{ and } B = \frac{\textbf{1}}{\textbf{4}} \textbf{x^2} \frac{\textbf{1}}{\textbf{3}} \textbf{x} + \textbf{8}, \text{ then } A B \text{ is@ } x < \text{sup} > 2 < / \text{sup} > x + 1 @ x < \text{sup} > 2 < / \text{sup} > x 1 @ x < \text{sup} > 2 < / \text{sup} > + x + 1 @ 0010$
- $28. If \ P = 2x < sup >^{3 < /sup >} 3x < sup >^{2 < /sup >} 5x + 6 \ and \ Q = \frac{1}{3} x^3 \frac{3}{4} x^2 \frac{5}{2} x + \frac{7}{3}, \ then \ Q P \ is @ \\ \frac{5x^3}{3} + \frac{9x^2}{4} + \frac{5x}{2} \frac{11}{3} @ \frac{-5x^3}{3} \frac{9x^2}{4} + \frac{5x}{2} \frac{11}{3} @ \frac{-5x^3}{3} \frac{9x^2}{4} \frac{5x}{2} \frac{11}{3} @ \frac{5x^3}{3} + \frac{9x^2}{4} + \frac{5x}{2} \frac{11}{3} @ 0100 \\$
- 29.If $\mathbf{A} = -\frac{3}{2}\mathbf{x}^3 \frac{9}{7}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + \mathbf{2}$ and $\mathbf{A} + \mathbf{B} = 0$, then polynomial B is $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 \frac{6\mathbf{x}}{7} 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{6\mathbf{x}}{7} + 2$ $\mathbf{a} = -\frac{3\mathbf{x}^3}{2} + \frac{9}{2}\mathbf{x}^2 + \frac{9}{2}\mathbf{x}$
- $30. If A = 2x < sup >^{3 </sup} 9x < sup >^{2 </sup} 6x + 7 \text{ and } A + B = 5x < sup >^{3 </sup} 6x < sup >^{2 </sup} 8x + 9, then the polynomial l) (A + B) A is@ <math>3x^3 3x^2 2x + 2@3x < sup >^{3 </sup} + 3x < sup >^{2 </sup} 2x + 2@3x < sup >^{3 </sup} + 3x < sup >^{2 </sup} 2x + 2@0100$
- $31.If \ A = 4x < sup^{3 </sup^>} 9x < sup^{2 </sup^>} 9x 8 \ and \ A B = -2x < sup^{3 </sup^>} 8x < sup^{2 </sup^>} 6x 2, \\ then the polynomial \ B = A (A @ is@ 6x < sup^{3 </sup^>} x < sup^{2 </sup^>} 3x 6@ 6x < sup^{3 </sup^>} + x < sup^{2 </sup^>} + 3x + 6@ 6x < sup^{3 </sup^>} + x < sup^{2 </sup^>} + 3x 6@ -6x < sup^{3 </sup^>} x < sup^{2 </sup^>} 3x 6@ 1000$
- $32. Given \ A = 2x < sup >^{3 </ sup} 3x < sup >^{2 </ sup} + 6x + 7 \ and \ B = 4x < sup >^{3 </ sup} 9x < sup >^{2 </ sup} 3x + 7, \ If \ C, \ D \ are additive inverses of A \ and B, then D C \ is@ -2x < sup >^{3 </ sup} + 6x < sup >^{2 </ sup} + 9x@ 2x < sup >^{3 </ sup} + 5x < sup >^{2 </ sup} + 9x@ 2x < sup >^{3 </ sup} 6x < sup >^{2 </ sup} + 9x@ 2x < sup >^{3 </ sup} 6x < sup >^{2 </ sup} 9x@ 1000$
- $33. If \ A B = 2x < sup >^{3 </sup} 3x < sup >^{2 </sup} + 8x 7 \ and \ B = 5x < sup >^{3 </sup} 9x < sup >^{2 </sup} + 6x 8, \\ where \ A = (A @ + B, \ then \ the \ polynomial \ A \ is@ 7x < sup >^{3 </sup} 12x < sup >^{2 </sup} + 14x + 18@ \\ 7x < sup >^{3 </sup} 12x < sup >^{2 </sup} + 14x 15@ 7x < sup >^{3 </sup} 12x < sup >^{2 </sup} 14x + 15@ 7x < sup >^{3 </sup} + 12x < sup >^{2 </sup} 14x 5@ 0100$
- 34. Given and C + A = 0. If is added to A, then the result is @ $x < sup >^{2 < / sup >} x + 1 @<math>-x < sup >^{2 < / sup >} x 1 @x < sup >^{2 < / sup >} + x 1 @x < sup >^{2 < / sup >} x + 1 @0010$
- $35. If A = 7x < \sup^{3 < /\sup} 2x < \sup^{2 < /\sup} 9x + 6, B = 2x < \sup^{3 < /\sup} 8x < \sup^{2 < /\sup} + 3x 5, C = 2x < \sup^{3 < /\sup} 4x < \sup^{2 < /\sup} 8x + 7, \text{ and } D = -3x < \sup^{3 < /\sup} 5x < \sup^{2 < /\sup} + 6x + 7, \text{ then } (A (B @is@ 5x < \sup^{2 < /\sup} 2x 11@ 5x < \sup^{2 < /\sup} + 2x + 11@5x < \sup^{2 < /\sup} 2x + 11@5x < \sup^{2 < /\sup} 2x 11@0100$
- 36. Which out of the following are expressions with numbers only? @ $(7 \times 20) (5 \times 10) 45$ @ 3x@ $(7 \times 20) 8z$ @5 5n@1000
- 37. Perimeter of the square, whose each side is 'n' cm is@ 4n@ 2n @3n@None of these @1000
- 38. Give expression for 25 added to r.(25 + r.)25 r.025 r. None of these (21000)
- 39. Number of matchsticks required to make a pattern of "U" @ 4@5@3@6@0010
- 40. The _____ of the variable in an equation which satisfies the equation is called a solution to the equation.@value@term@factor@None of these@1000
- 41. Choose a value of 'a' that satisfies the equation 6a = -30. @5@30@-5@10@0010

- 43. Which of the following is an equation? (2x + 3) = 5(2x + 3) < 5(2x + 3) > 5(2x + 3) < 5(2x + 3)
- 44. The expression for the statement: "y multiplied by 10 and then 7 added to product" is@7y 10@10y 7@10y + 7@None of these@0010
- 45. An ______ is a condition on a variable.@ expression@ equation @equal@none of these@0100
- 46. Take Meena's present age to be y years, what will be her age 5 years from now?@y+5 @5/y@y-5 @5y@1000
- 47. Which of the following is the perimeter of a regular hexagon of side's' units?@6 s units@12 s units@6 s2 sq units @-6 s units@1000
- 48. . Ramu's father is thrice as old as Ramu. If father's age is 45 years, how old is Ramu?@45 years@ 30 years@15 years@10 years@0010
- 49. Which of the following does 2n -1 represent?@1 subtracted from the product of n and 2.@The difference of two times n and 2.@2n added to 1.@n subtracted from 2.@1000
- 50. Perimeter of an equilateral triangle, whose each side is 'x' unit is @ 4x@ 2x @3+x @3x@0001
- 51. Pick out the solution from the values given in the bracket next to each equation. p 5 = 5 (0, 10, 5 5)@0@5@-5@10@0001
- 52. The side of an equilateral triangle is shown by l.Express the perimeter of the equilateral triangle using l.@3l@2l@l@None of these@1000
- 53 Pick out the solution from the values given in the bracket next to each equation. x + 4 = 2(-2, 0, 2, 4)@-2@4@2@1000
- 54. A number is multiplied by 6 and 12 is added to the product. The result is 84. What is the number?@ -12@72@12@-72@0010
- 55. Find the length of a side of an equilateral triangular garden whose perimeter is 66 m. @ 66 m@ 11 m@3m@22 m@0001
- 56. What is the method of finding a solution by trying out various values for the variable called?@ Error method @ Trial and error method @ Testing method@Checking method@0100
- 57. Number of matchsticks required to make a pattern of "A" @4@3@6@5@0100
- 58. A basket has x mangoes, how many mangoes are there in 5 baskets?@5@5x@6x @x@0100
- 59. What do literals usually represent?@ Known quantities@Variables@Constants@Depends on the problem@0100
- 60. The rule, which gives the number of matchsticks required to make the matchstick pattern L, is@2 n @3 n @4n@5 n.@1000
- 61. The rule, which gives the number of matchsticks required to make the matchstick pattern C, i@2 n @3 n@4 n@5 n.@0100
- 62. The rule, which gives the number of matchsticks required to make the matchstick pattern F, is@2 n@ 3 n@4 n@5 n.@0010

- 63. The rule, which gives the number of matchsticks required to make the matchstick pattern U, is @ $2 \,$ n@ $3 \,$ n@ $4 \,$ n@ $5 \,$ n.@ $0100 \,$
- 64. The rule, which gives the number of matchsticks required to make the matchstick pattern V, is@2 n @3 n @4 n@5 n.@1000
- 65. The rule, which gives the number of matchsticks required to make the matchstick pattern A, is@2 n @ 3 n@4 n@5 n.@0100
- 66. The rule, which gives the number of matchsticks required to make the matchstick pattern [], is@ 2 n @ 3 n@4 n @5 n@0010
- 67. The rule, which gives the number of matchsticks required to make the matchstick pattern \cong , is@2 n@3 n@4 n@5 n.@1000
- 68. The rule, which gives the number of matchsticks required to make the matchstick pattern E. is@2 n @3 n@4 n @5n.@0001
- 69. The rule, which gives the number of matchsticks required to make the matchstick pattern A, is@ 3 n @ An @5 n @6 n.@0010
- 70. The rule, which gives the number of matchsticks required to make the matchstick pattern A, is@3 n @ 4 n @5 n @6 n.@1000
- 71. The rule, which gives the number of matchsticks required to make the matchstick pattern S, is @31 @4 n@5 n@6 n.@0010
- 72. The side of a square is 1. Its perimeter is@31@21@41@61@0010
- 73. The side of an equilateral triangle is 1. Its perimeter is@1@21@31@61.@0010
- 74. The side of a regular pentagon is 1. Its perimeter is@31@61@41@51@0001
- 75. The side of a regular hexagon is 1. Its perimeter is@1@21@31@61.@0001
- 76. The length of an edge of a cube is 1. The total length of its edges is@31@41@61 @121.@0001
- 77. The radius of a circle is r. Its diameter is@2r@4r@3r@6r.@1000
- 78. Which of the following is an expression with numbers only?@x + 1@2x@1 x@3.@0001
- 79. Which of the following is an expression with numbers only?@ $2(4-3) + 5 \times 6$ @ $2 \times 3 4x$ @ $4 \times 5 10 \times 2 25 + x$ @x8@1000
- 80. Which of the following is not an expression with numbers only?@ $2 \times (3+4)$ @ $(2+3) \times 4$ @ 2×3 +4 × 5 @2x + 1.@0001
- 81. The expression for '1 added top' is @P + 1@p 1@1 p@-1 P@1000
- 82. The expression for '1 subtracted from p' is @p-1@p+1@1-p@-1-p.@1000
- 83. The expression for 'p multiplied by 2' is (ap + 2aP 2aP 2aP/2a2pa0001)
- 84. The expression for 'p divided by 2' is (a)P/2(a)2p(a)P + 2(a)p 2.(a)1000
- 85. The expression for '1 subtracted from -p' is @-P-1@p 1@1 p@1 + p.@1000

- 86. The expression for '1 added to -p' is@-p + 1@-p 1@p + 1@p 1.@1000
- 87. The expression for 'p multiplied by -2' is@ -2p@ P/2@p 2@ p 2.@1000
- 88. The expression for '-p multiplied by 2' is @ -2p@ -P/2 @p -2@ -p 2.@1000
- 89. The expression for '-p divided by 2' is@-P/2@-2p@-p + 2@-p 2.@1000
- 90. The expression for '1 added to 2p' is@2p + 1@2p 1@1 2p@-1 2p.@1000
- 91. The expression for '1 subtracted from 2p' is @2p 1 @ 2p + 1@1 2p @ -2p 1.@1000
- 92. The expression for added' is '2 times x to which 1 is @2x + 1@x + 2@1 2x @2x 1.@1000
- 93. The expression for '2 times x from which 1 is subtracted' is $@2x 1\ 2x + 1@x 2@x + 2.@1000$
- 94. The expression for 'x is divided by 2 and the result is added to 1' is @ $1 + \frac{x}{2}$ @ $1 \frac{x}{2}$ @2 + x@2 x.@1000
- 95. The expression for 'x is divided by -2 and the result is added to 1' is @1 x/2@1 + x/2@x2 1@-1 x/2@1000
- 96. If Apala's present age is x years, what will be her age in years after 20 years from now?@x + 20@x 20@x/20@20x.@1000
- 97. If Meenu's present age is x years, what was her age in years, 10 years back? @x 10 @10 x@-x 10 @10x.@1000
- 98. If the age of Hari Kishan is two times the age of Manish (which is x years), then the age of Hari Kishan, in years, is $\frac{(3)}{(2)}$ is $\frac{(3)}{(2)}$ in years, is $\frac{(3)}{(2)}$ is $\frac{(3)}{(2)}$ in $\frac{(3)}{$
- 99. The salary of Hari Kishan is two times the salary of Manish (which in Rs. x), then the salary of Hari Kishan, in rupees, is@ 2x@x/2@x + 2@x 2.@1000
- 100. Which of the following is an equation in a variable? $@10/2 = 5 @2 \times 3 + 2 \times 1 = 8 @2 \times 4 = 8$ @3p = 12.@0001