#  <br> ACBSE Coaching for Ohathematics and Science <br> <br> Class 8 Algebraic Expressions and Identities <br> <br> Class 8 Algebraic Expressions and Identities <br> <br> CBSE TEST PAPER - 02 

 <br> <br> CBSE TEST PAPER - 02}

Type: 01

1. Factorise $3 x y+9 x^{2} y^{3}$
2. Divide $7 x^{2} y^{2} z^{2} \div 21 x y z$
3. Subtract $5 x^{2}-4 y^{2}+6 y-3$ from $7 x^{2}-4 x y+8 y^{2}+5 x-3 y$.
4. $\quad$ Add $4 y\left(3 y^{2}+5 y-7\right)$ and $2\left(y^{3}-4 y^{2}+5\right)$
5. Simplify $(a+b)(2 a-3 b+c)-(2 a-3 b) c$.

Type: 02

1. Divide
(i) $\mathrm{x}^{3}-1$ by $\mathrm{x}-1$
(ii) $7+15 x-13 x^{2}+5 x^{3}$ by $4-3 x+x^{2}$
2. Evaluate
(i) $1.5^{3}-0.9^{3}-0.6^{3}$
(ii) $(a-b)^{3}+(a+b)^{3}$
(iii) $(x+2 y-3 z)^{2}+(x-2 y+3 z)^{2}$
3. If $\left(x^{4}+1 / x^{4}\right)=47$ find the value of $\left(x^{3}+1 / x^{3}\right)$
4. Find the product of
(i) $\left(x^{4}+1 / x^{4}\right)$ and $(x+1 / x)$ (ii) $\left(2 x^{2}+3 x-7\right)\left(3 x^{2}-5 x-4\right)$
5.Two adjacent side of a rectangle are $5 x^{2}-3 y^{2}$ and $x^{2}-2 x y$. Find its perimeter
6.The perimeter of a triangle is $6 p^{2}-4 p+9$ and two of its adjacent side are $p^{2}-2 p+1$ and $3 p^{2}-5 p$ +3 . Find third side of triangle.
5. Evaluate
(i) $\left(5^{-1} \times 3^{-1}\right)^{-1} \times 6^{-1}$
(ii) $\left(2^{3 x+1}+10\right) \div 7=6$
(ii) $\left[5^{2 x+1}\right] / 25=125$
(iv) $(4 / 9)^{4} \times(4 / 9)^{-7}=(4 / 9)^{2 x-1}$
