

**Factorization: Worksheet -3**

1. The H.C.F of  $8a^2b^2$ ,  $12a^2b^3$ ,  $16a^3b^2$  is \_\_\_\_\_
2. A factor of  $a + b + ax + bx$  is \_\_\_\_\_
3.  $xy^2 - x^2y$  on factorization is equal to \_\_\_\_\_
4. If  $2x + 3y = 6$  and  $2x - 3y = 1/2$ , then  $4x^2 - 9y^2 =$  \_\_\_\_\_
5. If  $a^2 - b^2 = 24$  and  $a + b = 8$ , then  $a - b =$  \_\_\_\_\_
6. If  $9a^2 - k + 4b^2$  is a perfect square, then  $k =$  \_\_\_\_\_
7.  $98 \times 98 + 2 \times 98 \times 2 + 2 \times 2 =$  \_\_\_\_\_
8. The H.C.F of  $16p^2$ ,  $24q^2$  is \_\_\_\_\_
9.  $\left(x + \frac{1}{x}\right)^2 =$  \_\_\_\_\_
10.  $x^2 + 10x +$  \_\_\_\_\_ is a perfect square.

