

**Use any method in factoring topic.**

**(Easy Task)**

1.  $4k^2 - 10k$

2.  $21a^2 + 9a$

3.  $5mn + 20mn^2$

4.  $12xy - 24x^2$

5.  $6x - 6y$

6.  $100b + 200bc$

7.  $50z + 150z^2$

8.  $36c - 12bc^2$

9.  $63de - 45e$

10.  $10k + 5k^2$

**(Medium Task)**

1.  $x^2 - 6x + 8$

2.  $y^2 - 8y + 7$

3.  $x^2 - 6x + 5$

4.  $x^2 + 4x - 12$

5.  $x^2 - 6x - 16$

6.  $x^2 - 4x + 3$

7.  $x^2 + 9x + 20$

8.  $x^2 - 11x + 28$

9.  $x^2 - 6x - 27$

10.  $x^2 - 9x + 18$

**(Hard Task)**

1.  $4x^2 - 28x - 72$

2.  $y^2 + 16y + 64$

3.  $4x^2 - 12x + 9$

4.  $18y^2 + 3y - 6$

5.  $5a^2 - 13a - 6$

6.  $3a^2 - 10a - 8$

7.  $9x^2 - 64x + 7$

8.  $27x^2 - 75$

9.  $5x^2 - 80$

10.  $6x^2 + 60x + 150$

**Answers :****Easy Task**

1.  $2k(2k - 5)$
2.  $3a(7a + 3)$
3.  $5mn(1 + 4n)$
4.  $12x(y - 2x)$
5.  $6(x - y)$
6.  $100b(1 + 2c)$
7.  $50z(1 + 3z)$
8.  $12c(3 - bc)$
9.  $9e(7d - 5e)$
10.  $5k(2 + k)$

**Medium Task**

1.  $(x - 2)(x - 4)$
2.  $(y - 1)(y - 7)$
3.  $(x - 1)(x - 5)$
4.  $(x + 6)(x - 2)$
5.  $(x - 8)(x + 2)$
6.  $(x - 3)(x - 1)$
7.  $(x + 4)(x + 5)$
8.  $(x - 4)(x - 7)$
9.  $(x + 3)(x - 9)$
10.  $(x - 3)(x - 6)$

**Hard Task**

1.  $4(x - 9)(x + 2)$

2.  $(y + 8)(y + 8)$

3.  $(2x - 3)(2x - 3)$

4.  $(9y + 6)(2y - 1)$

5.  $(5a + 2)(a - 3)$

6.  $(3a + 2)(a - 4)$

7.  $(9x - 1)(x - 7)$

8.  $3(3x - 5)(3x + 5)$

9.  $5(x - 4)(x + 4)$

10.  $6(x + 5)(x + 5)$