



In this worksheet you will learn to factorise algebraic expressions by extracting common factors and grouping terms.

Easy Questions

1. Factorise the expression $2x + 6$.
2. Factorise the expression $3y + 9$.
3. Factorise the expression $8x^2 + 4x$.
4. Factorise the expression $5a - 15$.
5. Factorise the expression $7m^2 + 14m$.

Intermediate Questions

6. Factorise the expression $ax + ay + bx + by$.
7. Factorise the expression $2x^2 + 4x + 3x + 6$.
8. Factorise the expression $3xy + 6y + 2x + 4$.
9. Factorise the expression $4a^2 + 8a - 3a - 6$.
10. Factorise the expression $5mn + 15m + 2n + 6$.
11. Factorise the expression $3x + 3 + 2xy + 2y$.
12. Factorise the expression $x^2 + 5x + 2x + 10$.
13. Factorise the expression $2x^2 + 6x + x + 3$.
14. Factorise the expression $6xy + 9y + 4x + 6$.
15. Factorise the expression $ax + 2a + 3x + 6$.
16. Factorise the expression $2x^2 + 8x + 3x + 12$.
17. Factorise the expression $5x + 10 + 3xy + 6y$.
18. Factorise the expression $2a^2 + 4a + 3a + 6$.
19. Factorise the expression $xy + x + 2y + 2$.
20. Factorise the expression $4m^2 + 8m + 3m + 6$.

Hard Questions

21. Factorise the expression $2ax + 2ay + 5bx + 5by$.
22. Factorise the expression $4x^2 + 2x + 10x + 5$.
23. Factorise the expression $3x^2 + 6x + 2x + 4$.
24. Factorise the expression $5ab + 10a + 3b + 6$.
25. Factorise the expression $7x + 21 + 4xy + 12y$.
26. Factorise the expression $9m + 12 + 6mn + 8n$.
27. Factorise the expression $4x + 8 + 6xy + 12y$.
28. Factorise the expression $10a + 15 + 4ab + 6b$.
29. Factorise the expression $8x + 12 + 2xy + 3y$.
30. Factorise the expression $5p + 10 + 4pq + 8q$.