



This worksheet will practise grouping terms in pairs to extract common factors and simplify expressions.

Easy Questions

1. Please factor by grouping: $x^2 + 3x + 2x + 6$.
2. Please factor by grouping: $3x^2 + 6x + 2x + 4$.
3. Please factor by grouping: $5xy + 10y + xz + 2z$.
4. Please factor by grouping: $a^2b + 2ab + 3a + 6$.
5. Please factor by grouping: $4m^2 + 8m + m + 2$.

Intermediate Questions

6. Please factor by grouping: $3ab + 6ac + 2b + 4c$.
7. Please factor by grouping: $4x^2y + 8xy^2 + 5x + 10y$.
8. Please factor by grouping: $6m^2 - 9m + 4m - 6$.
9. Please factor by grouping: $5x^3 + 10x^2 + 2x + 4$.
10. Please factor by grouping: $xy + 2x + 3y + 6$.
11. Please factor by grouping: $7ab + 14a + 3b + 6$.
12. Please factor by grouping: $8x^2 - 4xy + 2x - y$.
13. Please factor by grouping: $9a^2 + 6a + 3a + 2$.
14. Please factor by grouping: $12xy - 18x + 4y - 6$.
15. Please factor by grouping: $10p^2q + 15pq + 2p + 3$.
16. Please factor by grouping: $6a^2 + 9a + 4a + 6$.
17. Please factor by grouping: $5x^2 - 20x + 3x - 12$.
18. Please factor by grouping: $xy - 3x + 5y - 15$.
19. Please factor by grouping: $4ab + 8a + 3b + 6$.
20. Please factor by grouping: $6mn + 9m + 4n + 6$.

Hard Questions

21. Please factor by grouping: $2x^3 + 4x^2 + 3x + 6$.
22. Please factor by grouping: $3x^3 + 6x^2 + 5x + 10$.
23. Please factor by grouping: $4a^3b + 8a^2b + 3a^2 + 6a$.
24. Please factor by grouping: $5xy^2 + 10y^2 + 3x + 6$.
25. Please factor by grouping: $6x^2 + 12x - x - 2$.
26. Please factor by grouping: $2a^2b + 4ab + 3a + 6$.
27. Please factor by grouping: $7x^2 + 14x + 2x + 4$.
28. Please factor by grouping: $9x^2 - 3x + 6x - 2$.
29. Please factor by grouping: $8xy + 12x + 2y + 3$.
30. Please factor by grouping: $4x + 8 + 5x^2 + 10x$.