

Mandalay International Science Academy
Year 8 Mathematics

Please match the factorized expressions to their expanded forms

Factorized

Expanded

- | | | |
|----|--------------------------|-------------------------------|
| 1 | $6x(4x^2 + 2x + 3)$ | $30x^2 + 18y - 42y^2$ |
| 2 | $7pqr(5q - 4p - 7r)$ | $6a^2bd^2 - 66bd^2$ |
| 3 | $3t^3(25 + 11t)$ | $-36ax + 48bx$ |
| 4 | $-12x(3a - 4b)$ | $75t^3 + 66t^4$ |
| 5 | $15xy(3x + 2 + 4y)$ | $210ax - 60abx - 90adx^2$ |
| 6 | $30ax(7 - 2b - 3dx^2)$ | $45x^2 + 90$ |
| 7 | $6(5x^2 + 3y - 7y^2)$ | $-46o^3 - 69o^2$ |
| 8 | $-8xy(2xy + 3y + 2x)$ | $60x - 12x^3 + 66ax^4$ |
| 9 | $-23o^2(2o + 3)$ | $24x^3 + 12x^2 + 18x$ |
| 10 | $6x(10 - 2x^2 + 11ax^3)$ | $35pq^2r - 28p^2qr - 49pqr^2$ |
| 11 | $45(x^2 + 2)$ | $45x^2y + 30xy + 60xy^2$ |
| 12 | $6bd^2(a^2 - 11)$ | $-16x^2y^2 - 24xy^2 - 16x^2y$ |