

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 | $6bd^2(a^2 - 11)$        | $-16x^2y^2 - 24xy^2 - 16x^2y$ |