

Dr Oliver Mathematics
Worked Examples
Irrational Expressions 1

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Pearson Edexcel GCSE Mathematics: Grade 9+

1. (a) Write

$$\sqrt{24}$$

as the product

$$2\sqrt{p}\sqrt{q},$$

where p and q are both primes numbers, with $p < q$.

- (b) Expand

$$(a + b + c)^2.$$

- (c) Writing

$$10 = 2 + 3 + 5,$$

or otherwise, simplify

$$\sqrt{10 + \sqrt{24} + \sqrt{40} + \sqrt{60}}.$$