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2015 11 Factorise fully $3x^2 - 27$
b

2

$$\begin{aligned} 3x^2 - 27 &= 3(x^2 - 9) \\ &= 3(x - 3)(x + 3) \end{aligned}$$

State Mean:
1.73

* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by BOSTES.

Board of Studies: Notes from the Marking Centre

(b) Most candidates correctly factorised the quadratic expression.

Common problems were:

- changing the question to a quadratic equation and solving it
- only recognising the common factor of 3
- dividing the expression by 3.