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**2014 11b** Factorise  $3x^2 + x - 2$ .

$$3x^2 + x - 2 = (3x - 2)(x + 1)$$

State Mean: **1.75** 

2

\* These solutions have been provided by projectmaths and are not supplied or endorsed by BOSTES.

## **Board of Studies: Notes from the Marking Centre**

A variety of methods to factorise the given expression was used successfully. Common problems were:

- solving the equation (3x 2)(x + 1) = 0 after factorising correctly;
- giving an answer in the form  $(x \frac{2}{3})(x + 1)$ ;
- using the quadratic formula to solve  $3x^2 + x 2$ , leading to  $(x \frac{2}{3})(x + 1) = 0$ ;
- mixing signs and terms resulting in answers such as (3x-1)(x+2) or -(3x+2)(x-1).

http://www.boardofstudies.nsw.edu.au/hsc\_exams/2014/pdf\_doc/2014-maths.pdf