Factorising Algebraic Expressions (Grade 9)

WORKSHEET

Name: ..... Class: .....

Date: .....

MARK ____ / 31

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Factorise $5x + 15$ *(common factor)* (1)

2 Factorise $8a^2b - 12ab$ *(common factor)* (2)

3 Factorise $x^2 - 49$ *(difference of squares)* (1)

4 Factorise $25x^2 - 9$ *(difference of squares)* (2)

5 Factorise $3x^2 - 27$ *(common factor first)* (2)

6 Factorise $x^2 + 9x + 20$ *(trinomial, both +)* **(2)**

7 Factorise $x^2 - 8x + 15$ *(trinomial, c + b −)* **(2)**

8 Factorise $x^2 + 2x - 15$ *(trinomial, c −)* **(2)**

9 Factorise $x^2 - 2x - 15$ *(trinomial, c −)* **(2)**

10 Factorise $2x^2 + 14x + 20$ *(common factor, then trinomial)* **(3)**

11 Factorise $5x^2 - 5x - 30$ *(common factor, then trinomial)* **(3)**

12 Factorise $x^2y - 9y$ *(common factor, then difference of squares)* **(2)**

13 Factorise $a^2 - 6a + 9$ *(trinomial)* **(2)**

14 Factorise $4x^2 - 100$ *(mixed)* **(2)**

15 Factorise $2x^2 - 2x - 24$ *(mixed)* **(3)**

TOTAL: 31 marks

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