Factorisation, Inequalities and Equations

Maths

Statement Code no: 17

Student:

Class:

At Junior Certificate level the student can:

Factorise, graph and solve inequalities and solve more challenging equations in Algebra

	Date Commenced: 00/00/00 Date Awarded:	00/00/00
Learning Targets - This has been demonstrated by your ability to:		
1	Multiply two algebraic expressions eg $(x)(x^2)$ $(x + 2)(x + 3)$ $(2x + 3)(3x^2 - 2x + 3)$	$\bigcirc \bigcirc \bigcirc \bigcirc$
2	Solve more challenging equations eg $8x + 5 = 7x + 10$ $5(3x - 2) = 7(2x - 1)$	000
3	Use equations to solve problems	$\bigcirc \bigcirc \bigcirc \bigcirc$
4	Use grouping to find the factors of algebraic expressions	$\bigcirc \bigcirc \bigcirc \bigcirc$
5	Find the factors of quadratic expressions (which have a positve third term) eg $x^2 + 8x + 12$ $x^2 - 12x + 20$	000
6	Find the factors of quadratic expressions (which have a negative third term) eg $x^2 + 7x - 30$ $x^2 - 13x - 30$	000
7	Find the factors of the difference of two squares eg $x^2 - 9$ $x^2 - 100$ $36x^2 - 49y^2$	$\bigcirc \bigcirc \bigcirc \bigcirc$
8	Simplify algebraic fractions eg $\frac{6x}{3x} \frac{12(a+b)}{3(a+b)} \frac{x^2 + 4x - 5}{x - 1}$	000
9	$3x 3(a + b) \qquad x - 1$ Solve the inequalities $(<, >, \le, \ge)$ eg $4 - 3x \ge 13$	000
10	Graph the solutions of these inequalities on the number line	000

Work begun 🔍 💭 | Work in progress 🔍 💭 🖓 | Work completed 🔍 💭