

Maths Workout - Algebra & Problem Solving

Topic 24 - Algebraic Fractions				
Target 1	Target 2	Target 3	Target 4	
<i>Simplify an algebraic fraction</i>	<i>Simplify an algebraic fraction</i>	<i>Multiply and divide, add and subtract algebraic fractions</i>	<i>Add and subtract algebraic fractions</i>	
1. Complete a set of equivalent algebraic fractions	1. Demo: Simplify an algebraic fraction by factorising	1. Demo: Multiply and divide algebraic fractions	1. Demo: Add and subtract algebraic fractions	
2. Complete a set of equivalent algebraic fractions	2. Simplify an algebraic fraction by factorising: $3x+6/x+2$	2. Multiply and divide algebraic fractions: $a/5 \times 10/a$	2. Add and subtract algebraic fractions: $a/5 + 10/a$	
3. Simplify an algebraic fraction: $10a/5$	3. Simplify an algebraic fraction by factorising: including quadratics	3. Multiply and divide algebraic fractions: $ab^2/5 \times 10bc/a$	3. Add and subtract algebraic fractions: $2a/5 + a/4$	
4. Simplify an algebraic fraction: $10a^2/5b$	4. Simplify an algebraic fraction by factorising: including quadratics	4. Multiply and divide algebraic fractions: $30ab^2/5 \times 15bc/a^2$	4. Add and subtract 3 algebraic fractions: $2a/5 + a/4 + a/2$	
5. Simplify an algebraic fraction: $24ba^2/16bc^2$	5. Simplify an algebraic fraction by factorising: including quadratics	5. Multiply and divide algebraic fractions: $(x-1)/5 \times 15/(2x-4)$	5. Add and subtract algebraic fractions: $(x-1)/5 + (x+3)/4$	
	6. Simplify an algebraic fraction by factorising: including quadratics	6. Multiply and divide algebraic fractions: $(x^2+2x-1)/x+1 \times 10/(x-1)$	6. Add and subtract algebraic fractions: $2(x-1)/5 + (x+3)/x$	
	7. Simplify an algebraic fraction by factorising: including quadratics		7. Add and subtract algebraic fractions: $2/(x-1) + 3/(x+3)$	