Factorising

2008 P1	**2.** Factorise fully $5x^2 - 45.$	2	
Ans	$5(x-3)(x+3)$		
2006 P1	**5.** (*a*) Factorise $4x^2 - y^2.$ (*b*) Hence simplify $\frac{4x^2 - y^2}{6x + 3y}.$	1 2	
Ans	(*a*) $(2x-y)(2x+y)$ (*b*) $\frac{2x-y}{3}$		
2003 P1	**5.** Factorise $2x^2 - 7x - 15.$	2	
Ans	$(2x+3)(x-5)$		
2002 P1	**5.** (*a*) Factorise $p^2 - 4q^2$. (*b*) Hence simplify $\frac{p^2 - 4q^2}{3p + 6q}.$	1 2	
Ans	**5.** (*a*) $(p-2q)(p+2q)$ (*b*) $\frac{(p-2q)(p+2q)}{3(p+2q)} = \frac{p-2q}{3}$		
2001 P1	**6.** A is the point (a^2, a). T is the point (t^2, t), $a \neq t$ Find the gradient of the line AT. Give your answer in its simplest form.	3	
Ans	$\frac{1}{t+a}$		

2000 P1	**4.** (*a*) Factorise $x^2 - 16$.	1	
Ans	$(x - 4)(x + 4)$		