

Topic Test 1 Mark Scheme

Algebraic fractions - Higher

Q	Answer	Mark	Comments
1	$\frac{2a^2 + 3b^2}{ab}$	B1	
2	$\frac{x}{4y}$	B1	
3	$\frac{2}{5e}$	B1	
4	$\frac{2}{xy}$	B1	
5	y^2	B1	Accept 1y ²
6	Mya's answer is correct but from wrong working. She should have factorised the top and cancelled the common bracket ie $\frac{(3x-y)(3x+y)}{3x-y}$ = $3x + y$	B2	B1 for partial explanation Or B1 for sight of $(3x - y)(3x + y)$
7(a)	(x-4)(x+4)	B1	Either order
7(b)	$(x \pm a)(2x \pm b)$	M1	Allow where ab = 12
	(x-4)(2x+3)	A1	
	$\frac{x+4}{2x+3}$	A1	

Q	Answer	Mark	Comments		
8	$(3y \pm a) (y \pm b)$	M1	ab = 2		
	(3y-2)(y+1)	A1			
	y + 1	A1			
9	$\frac{(3x-2)(3x+2)}{(4x-1)(3x+2)}$	M1			
	$a = 9 \ b = 4 \ c = 12 \ d = 5 \ e = -2$	A1			
10	Attempt to factorise numerator or denominator	M1			
	(2x + 1)(x - 5)	A1	either order		
	(2x+1)(3x+4)	A1	either order		
	$\frac{x-5}{3x+4}$	A1			