Question	Working	Answer	Mark	Notes
24	$\frac{x+3x-4}{x(3x-4)}$ or $\frac{4x-4}{3x^2-4x}$ oe eg $\frac{4(x-1)}{x(3x-4)}$		5	M1 For adding the terms in the brackets correctly eg $\frac{x+3x-4}{x(3x-4)}$ oe and may be 2 fractions with a common denominator
	$\frac{5x(3x+4)(3x-4)}{(3x+4)(x-1)}$ **or** $(45x^3-80x)(4x-4)=180x^4-180x^3-320x^2+320x$ **or** $(3x^2+x-4)(3x^2-4x)=9x^4-12x^3+3x^3-4x^2-12x^2+16x$ $\left(=9x^4-9x^3-16x^2+16x\right)$			M1 indep (score best method if both shown) For factorising the numerator of the first fraction correctly **or** factorising the denominator of the first fraction correctly **OR** expanding the numerators correctly **or** expanding the denominators correctly
	$\frac{5x(3x+4)(3x-4)}{(3x+4)(x-1)}\times\frac{4(x-1)}{x(3x-4)}(=20)$ oe eg $\frac{5x(9x^2-16)\times4}{x(9x^2-16)}$ oe $\frac{180x^4-180x^3-320x^2+320x}{9x^4-9x^3-16x^2+16x}(=20)$ oe			M1 (assumes previous mark if this is awarded) All terms factorised (some terms may be cancelled) **or** showing an expression that will cancel **or** the correct fraction with all terms correctly expanded
	$20=\frac{4(x+2)}{5x-8}$ oe allow up to a quadratic on the LHS – must be correct			M1 Cancelling and LHS = RHS or division of top by bottom = 20 and LHS = RHS
	Working required	$\frac{7}{4}$		A1 oe dep on a fully correct method shown, ie all steps that lead to the correct answer
				Total 5 marks

Pearson Education Limited. Registered company number 872828
with its registered office at 80 Strand, London, WC2R 0RL, United Kingdom