| 1 | | 5, 6, 7 | M1 | for identification of possible values of x (4,5,6,7) or of y (5,6,7,8,9) | Could be shown on a number line or using a Venn diagram
This mark can be awarded for an answer of 4, 5, 6, 7 |
| | | | A1 | cao | Answers may be given in any order. |

2		$3x^7y^2$	M1	for full evaluation of numerator or denominator with at least 2 of 3 terms correct in a product, eg $36x^{10}y^6$ **or** $12x^3y^4$ or full evaluation of $\dfrac{6x^5y^3}{3x^2y^7}$ or $\dfrac{6x^5y^3}{4xy^{-3}}$ with at least 2 of 3 terms correct in a product, eg $2x^3y^{-4}$ **or** $1.5x^4y^6$	
			M1	for correct evaluation of numerator and denominator, eg $36x^{10}y^6$ **and** $12x^3y^4$ or for full evaluation of numerator and denominator with no more than one error **and** a final answer of the form ax^by^c with two of a, b and c correct or for correct evaluation of $\dfrac{6x^5y^3}{3x^2y^7}$ and $\dfrac{6x^5y^3}{4xy^{-3}}$ eg $2x^3y^{-4}$ **and** $1.5x^4y^6$ or for full evaluation of $\dfrac{6x^5y^3}{3x^2y^7}$ and $\dfrac{6x^5y^3}{4xy^{-3}}$ with no more than one error **and** a final answer of the form ax^by^c with two of a, b and c correct	
			A1	for $3x^7y^2$ oe	Accept $a = 3$, $b = 7$, $c = 2$

3	(a)	4^{-2}	B1	for 4^{-2}	Accept $n = -2$
	(b)	5	M1	for $8^{\frac{5}{3}} = \left(\sqrt[3]{8}\right)^5$ or 2^5 or $\sqrt[3]{8^5}$ or $\sqrt[3]{32768}$ **or** $9^{\frac{3}{2}} = \left(\sqrt{9}\right)^3$ or 3^3 or $\sqrt{9^3}$ or $\sqrt{729}$	
			M1	for correctly evaluating $8^{\frac{5}{3}}$ **or** $9^{\frac{3}{2}}$, eg 32 or 27 seen	
			A1	cao	