LOGS-SURDS-SET-3

1

(a) $\log k = 2\log 3 - 5\log 2$

Find the value of k.

$k =$ ..... [2]

(b) $\log_2 p = -1$

Find the value of p.

$p =$ ..... [1]

MS-1

(a)	$\frac{9}{32}$	**2**	**M1** for correct use of $a\log b = \log b^a$ or $\log p - \log q = \log \frac{p}{q}$
(b)	0.5 oe	**1**	

2

(a) Find the value of n when $\log 5 + \log 3 - \log 2 = \log n$.

..... [1]

(b) Find $\log_3(3^{1.4})$.

..... [1]

MS-2

(a)	7.5	**1**	
(b)	1.4	**1**	

3	Solve the equation. $3\log x - \log 4 = 4\log 2$ $x =$ ..... [3]
MS-3	4 **3** **M2** for $\log x^3 = \log(2^4 \times 4)$ or **M1** for one correct use of rules of logs