ESSENTIAL SKILLS INVOLVING FRACTIONS and ALGEBRAIC SIMPLIFICATION.		
1. Simplify	3. Find c in each case :	4. Using the equation :
(a) $3\left(\frac{x}{3}+2\right)$	(a) $5 = \frac{1}{2} + c$	y = m x + c
		find the value of c if:
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=	(b) $4 - 1 \times 5 + c$	(a) $m = 4$, $x = 3$, $y = 16$
	$(b) 4 = \frac{1}{2} \times 5 + c$	
(b) $4\left(\frac{1}{2}x-\frac{3}{4}\right)$		
=	$(c) \qquad 2 = \underbrace{3}_{\underline{A}} \times 5 + c$	(b) $m = -2, x = 4, y = -3$
	4	
(c) $6(5r + 7)$		
$(c) 6\left(\frac{5x}{6} + \frac{7}{2}\right)$		
	$(d) \qquad 8 = \frac{2}{3} \times 2 + c$	
=	3	(c) $m = \frac{2}{3}, x = 12, y = 5$
		3
(d) 12 $(2m + 1)$		
$(d) 12\left(\begin{array}{c} \underline{2} x + \underline{1} \\ 3 & 4 \end{array}\right)$	(a) 3 = -1 + c	
	$(e) 3 = -\frac{1}{4} + c$	
=		(d) $m = -3$ $r = 10$ $v = 1$
		(d) $m = -\frac{3}{5}, x = 10, y = 1$
$(e) 8 \left(\frac{3}{4} x + \frac{5}{8} \right)$	(f) $2 = -\frac{3}{4} \times 3 + c$	
$\begin{bmatrix} 4 & 8 \end{bmatrix}$	4	
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—		(e) $m = \frac{1}{5}$, $x = 3$, $y = 2$
		5
2. Complete the working to		
solve this equation.	$(g) -5 = -\frac{1}{2} \times 3 + c$	
	2	
$\frac{3}{4}x - 1 = \frac{1}{6}x + \frac{2}{3}$		(f) $m = -\frac{2}{3}$, $x = 1$, $y = 4$
+ 0 5		3
Multiplying both sides by 12		
	$(h) -4 = -\underline{3} \times 5 + c$	
$12\left(\frac{3}{4}x - 1\right) = 12\left(\frac{1}{6}x + \frac{2}{3}\right)$	2	
(4) (6 3)		(g) $m = -\frac{5}{4}, x = -3, y = 6$
		4
	$(i) 12 = \underline{5} \times 2 + c$	
	(<i>i</i>) $12 = \frac{5}{8} \times 2 + c$	