Name:		



Math worksheet on 'Fraction Manipulation Algebra -All (Level 4)'. Part of a broader unit on 'Algebra Manipulating Variables - Advanced'

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1 Solve the fraction for the '?' in terms of the variables and reduce.	$egin{array}{c} \mathbf{a} & & & \\ a \cdot c & & & \end{array}$	$^{\scriptscriptstyle{b}}a$	$^{\mathtt{c}}c$
4c	2	$\overline{2c}$	$\overline{2a}$
$4a = \frac{10}{22}$	$^{\scriptscriptstyled} c$		
2!	\overline{a}		

2 Solve the fraction for the '?' in terms of the variables and reduce.	^{a}b	b	$^{\mathtt{c}}$ 3 a
2 <i>b</i>	\overline{a}	$\overline{12a}$	$\overline{4b}$
$3a = \frac{20}{22}$	^{d}b	$^{ extsf{e}}2b$	
2!	$\overline{3a}$	$\overline{6a}$	

3 Solve the fraction terms of the vari reduce	ables and	^{a}b	$^{\mathtt{b}}b$	$egin{array}{c} \mathbf{c} & & \\ a \cdot b & & \end{array}$
	4 <i>b</i>	$\overline{4a}$	\overline{a}	4
4 <i>a</i> =	4?			

4 Solve the fraction for the '?' in terms of the variables and reduce.	a c	$^{\scriptscriptstyle{b}}a$	$\begin{vmatrix} \mathbf{c} \\ a \cdot c \end{vmatrix}$
2c	$\overline{3a}$	$\overline{3c}$	3
$2a = \frac{28}{3?}$			

5 Solve the fraction for the '?' terms of the variables and reduce.		3 a	$^{c}\!2a$
21	$\frac{1}{a}$	$\overline{6b}$	$\overline{9b}$
$3a = \frac{2}{3}$	$\frac{1}{2}$	b	
3!	$\sqrt{9a}$	$\overline{18a}$	

6 Solve the fraction for the '?' in terms of the variables and reduce.	$egin{array}{c} {\sf a} \ 2a \cdot c \end{array}$	c	$^{\circ}c$
3c	9	2a	a
$2a = \frac{33}{37}$	$rac{da\cdot c}{da\cdot c}$		
J:	3		

7 Solve the fraction for the '?' in terms of the variables and reduce.	$egin{array}{c} {f a} \cdot b \end{array}$	$^{\mathtt{b}}b$	$^{\mathtt{c}}b$
4 <i>b</i>	8	$\overline{8a}$	$\overline{2a}$
$2a = \frac{10}{42}$	$^{\scriptscriptstyle d}b$	$^{ extsf{e}}2a$	
4 !	\overline{a}	$\overline{4b}$	