## Simultaneous equations

Name

**INSTRUCTIONS** – Use substitution for the ones in italics AND then confirm your answer is correct using elimination. For the non italics,

just use elimination to solve them.							
$\begin{array}{l} x+y=1\\ x-y=5 \end{array}$	4x + 3y = 11 2x + y = 7	5x + 2y = 33 $2x + y = 14$					
2x + 2y = 10	3x + 4y = 29	3x + y = 18					
x + 2y = 0	x - 4y = -17	2x + y = 13					
5x + 3y = 18 $5x + y = 16$	3x + 4y = 18 $3x - 4y = -6$	5x + 3y = 14 2x + 2y = 4					
2x + 3y = 15	6x + 2y = 10	4x + 2y = 2					
5x-y=46	4x + y = 7	2x+2y=0					
3x - 2y = 13 $x - y = 5$	4x + 3y = 13 6x - 2y = 13	2x + 3y = 28 $3x - y - 9$					
x - y = 5	0x - 2y = 13	Jx - y - y					
0 0 40							
2p + 3q = 12 3p + 2y =13	3x - 2y = 10 - $3x + y = -11$	p + q = 0 $p - q = -2$					
At the cinema Mr Ahmed buys 5 adults tickets and 3							
children's tickets for £31. Mr Jones buys 3 adults							
(i) adult tickets and (ii) children's tickets?							
Paul took £400 from his savings. He had both £20							
and £10 notes, a total of 23 altogether. Let $x$ represent the number of £20 notes and $v$ the number							
of £10 notes. Write down two equations and solve							
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Just use elimination to	J SOIVE LITEITI.	-	-	just use elimination			
x + y = 1	4x + 3y = 11	5x + 2y = 33		x + y = 1	4x + 3y = 11	5x + 2y = 33	
x - y = 5	2x + y = 7	2x + y = 14		x - y = 5	2x + y = 7	2x + y = 14	
5				5			
2x + 2y = 10	3x + 4y = 29	3r + v = 18		2x + 2y = 10	3x + 4y = 29	3r + v = 18	
2x + 2y = 10 $x + 2y = 6$	y = 4y = 20	3x + y = 10 2x + y = 13		2x + 2y = 10 x + 2y = 6	y = 4y = 20	3x + y = 10 2x + y = 13	
x + 2y = 0	x - +y17	2x + y - 13		x + 2y = 0	x - +y11	2x + y - 13	
10	<b>a ( (a</b> )	<b>E</b> 0 44				5 0 11	
5x + 3y = 18	3x + 4y = 18	5x + 3y = 14		5x + 3y = 18	3x + 4y = 18	5x + 3y = 14	
5x + y = 16	3x - 4y = -6	2x + 2y = 4		5x + y = 16	3x - 4y = -6	2x + 2y = 4	
2x + 3y = 15	6x + 2y = 10	4x + 2y = 2		2x + 3y = 15	6x + 2y = 10	4x + 2y = 2	
5x - y = 46	4x + y = 7	2x + 2y = 0		5x - y = 46	4x + y = 7	2x + 2y = 0	
						,	
3r - 2v - 13	1x + 3y - 13	$2r \pm 3v = 28$		3r - 2v - 13	1x + 3y - 13	$2r \pm 3v = 28$	
3x - 2y = 13	4x + 3y = 13	2x + 3y = 20		3x - 2y = 13	4x + 3y = 13 6x $2y = 12$	2x + 3y = 20	
x - y = 3	0x - 2y = 13	3x - y = 9		x - y = 3	0x - 2y = 13	3x - y = 9	
<u> </u>	0 0 10	-		0 0 40		0	
2p + 3q = 12	3x - 2y = 10	p+q=0		2p + 3q = 12	3x - 2y = 10	p+q=0	
3p + 2y =13	-3x + y = -11	p - q = -2		3p + 2y =13	-3x + y = -11	p - q = -2	
At the cinema Mr Ahmed buys 5 adults tickets and 3				At the cinema M	Ir Ahmed buys 5 adu	Its tickets and 3	
children's tickets for £31. Mr Jones buys 3 adults				children's tickets for £31. Mr Jones buys 3 adults			
tickets and 3 children's tickets for $f24$ How much are				tickets and 3 children's tickets for £24. How much are			
(i) adult tickets and (ii) children's tickets?				(i) adult tickets and (ii) children's tickets?			
						0101	
						had had boo	
Paul took £400 from his savings. He had both £20				Paul took £400 from his savings. He had both £20			
and £10 notes, a total of 23 altogether. Let x				and £10 notes, a total of 23 altogether. Let x			
represent the number of £20 notes and <i>y</i> the number				represent the number of £20 notes and y the number			
of £10 notes. Write down two equations and solve				of £10 notes. Write down two equations and solve			
them.				them.			