

SIMULTANEOUS EQUATIONS

Name: _____

Assessment Criteria: Use algebraic and graphical methods to solve simultaneous linear equations in two variables

1. Solve the following simultaneous equations:

a) $3x + 2y = 12$ and $4x - y = 5$

$x =$ _____

$y =$ _____

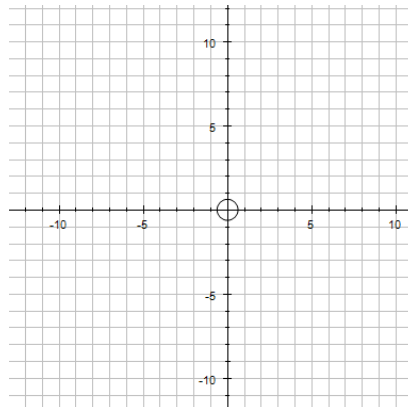
b) $5x + 2y = 20$ and $4x + 3y = 23$

$x =$ _____

$y =$ _____

2. Solve the following simultaneous equations graphically

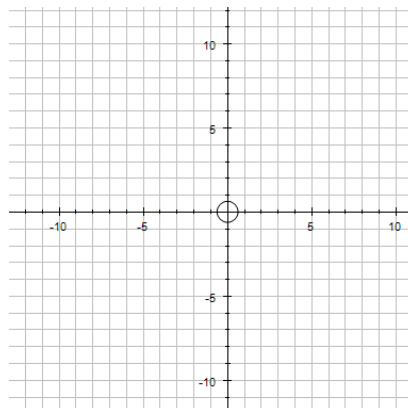
a) $y = 3x + 1$ and $y = 1$



$x =$ _____

$y =$ _____

b) $y = 2x - 2$ and $y = 4 - x$



$x =$ _____

$y =$ _____

3. Katya's Diner sold Elizabeth 2 blueberry muffins and 3 cans of lemonade. It cost her £2.35. Tim bought 4 blueberry muffins and 2 cans of lemonade and he paid £ 2.50. Write a pair of simultaneous equations and solve them to find how much each muffin and can of drink cost.

Equations: _____ and _____

Muffin each _____

Can each _____

Overall, I think my success level is:

Low High

Q	SIMULTANEOUS EQUATIONS	😊	☹
	I can solve simultaneous equations algebraically		
	I can solve simultaneous equations graphically		
	I can construct equations from information provided		
	<i>I can explore connections in mathematics across a range of contexts</i>		
I need to practise ...			