

Simplify the following algebraic expressions :

	SELF PRACTISE DURING CLASS
$3(x + y) - 4(x + y)$	$6(x + y - 3)$
$2y + 4x - 7y$	$34(p + 6q) - 12(p - 4q)$
$23p + 3(p + q) - 12p$	$3(a + b) - 12b$
$w(2p + 4q) - w(4q + 3p)$	$12zxy - 5zxy + 12y$
$2(4x + 4y) - 4(3x - 4y)$	$32x^2 + 3y^2 + 4x(x + y)$
$12(3y + 34y)$	$4(r - 2s) - (r - s)$
$a(x + y) - y(3a - 4y)$	$11(xy - y^2) + 4(y^2)$



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$$9(x + y) - \frac{3x}{2} + 22y$$

$$\frac{y}{3} + \frac{x}{2} + 12y + 40x$$

Solve the following linear equations:

$$12y = 72$$

$\Rightarrow$

$$y = \underline{\hspace{2cm}}$$

$$8x + 5 = 72$$

$\Rightarrow$

$$8x = \underline{\hspace{2cm}}$$

$$23p - 12 = 45$$

$\Rightarrow$

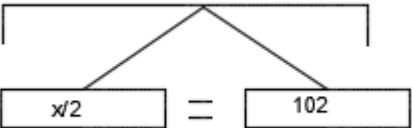
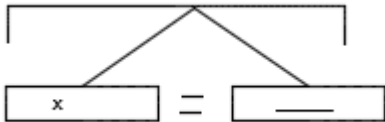
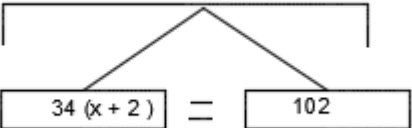
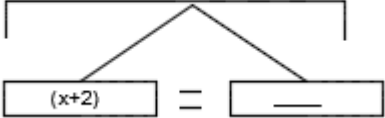
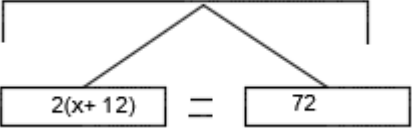
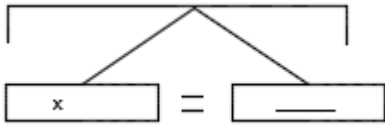
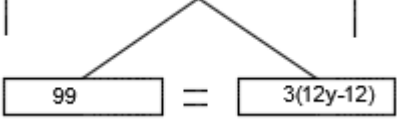
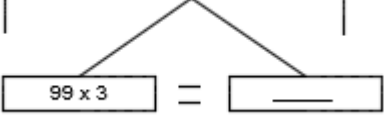
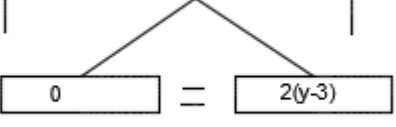
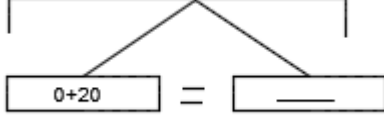
$$23p = \underline{\hspace{2cm}}$$

$$34y + 2 = 50$$

$\Rightarrow$

$$y = \underline{\hspace{2cm}}$$

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	$\Rightarrow$	
	$\Rightarrow$	
	$\Rightarrow$	
	$\Rightarrow$	
	$\Rightarrow$	

Solve the following linear equations :

	To be done in class as self practice
$2x - 7 = 5 - 3x$	$2x + 4 = x - 3$

$\frac{2x}{3} = 10$	$\frac{x}{10} = 13$
$\frac{x}{2} + 7 = 12$	$4x = x - (x - 2)$
$100x - 1 = 98$	$7x = 3x - (x + 20)$
$7 - 3x = 5 - 2x$	$4 = \frac{x}{2} - 5$
$7 = \frac{x}{2}$	$7 = 7x + 5$
$\frac{1}{4} = \frac{5x}{6}$	$x + 3(x + 1) = 2x$