

# Fill in the Blanks

# More Rearranging Formulae

Rearrange each formula to make  $x$  the subject.

Question	Multiply by Denominator	Multiply out bracket	Collect all $x$ terms	Take out $x$ as a common factor	Divide by bracket
$y = \frac{ax}{x-b}$	$y(x-b) = ax$	$xy - by = ax$	$xy - ax = by$	$x(y-a) = by$	$x = \frac{by}{y-a}$
$y = \frac{x}{a-x}$	$y(a-x) = x$				
$y = \frac{2x}{x+b}$					
$2y = \frac{x}{x-1}$					
$y = \frac{x+a}{x+1}$	$y(x+1) = x+a$	$xy + y = x+a$	$xy - x = a - y$		
$y = \frac{x+2}{x-a}$					
$y = \frac{x-a}{x-b}$					