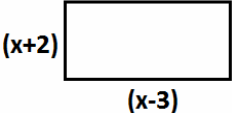

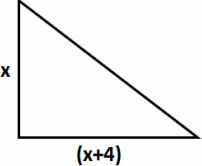
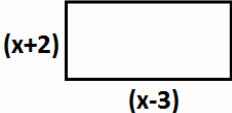

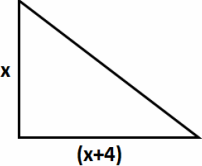




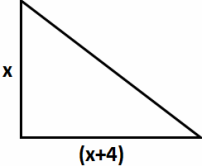
(7) Factorising and Expanding

Factorise $4x + 8$	
Factorise $14p + 21$	
Factorise $20k + 30$	
Factorise $15x + 20$	
Factorise $2x^2 + 8x$	
Factorise $6p - 9$	
Factorise $5x + 10 + 20y$	
Expand and simplify $2(x+5)$	
Expand and simplify $3(x-10)$	
Multiply out $5(x+4)$	
Expand and simplify $x(x+4)$	
Expand and simplify $3x(2+x)$	
Multiply out the brackets: $5x(1 - x)$	
Expand and simplify $2(x+1) + 3(x-1)$	
Expand and simplify $5(x-1) + 2(x+2)$	
Expand and simplify $-6(x+3) - 2(x - 2)$	
Expand and simplify $(x+1)(x+2)$	
Expand and simplify $(x-3)(x+5)$	
Expand and simplify $(2x+1)(x+4)$	
Expand and simplify $x(y+2x)$	
Find a simplified expression for the area of the rectangle below in terms of x meters.	
	
Find a simplified expression for the area of the square below in terms of x meters.	
	
Find a simplified expression for the area of the triangle below in terms of x meters.	
	
<i>Extension – Using Pythagoras find the length of the hypotenuse of the triangle in a simplified form.</i>	

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<i>Extension – Using Pythagoras find the length of the hypotenuse of the triangle in a simplified form.</i>	