

Q1. (2020)

Q	Answer	Mark	Comments
17	$2(12 - x)$ or $24 - 2x$ or $12(x + 2)$ or $12x + 24$ or $12x + 2x$ or $14x$ or $2x + x^2 + x(12 - x)$ or $2x + x^2 + 12x - x^2$	M1	oe correct area of small rectangle or large rectangle or unshaded section may be seen on diagram
	$\frac{12(x+2)}{4} = 2(12 - x)$ or $12x + 2x = 6(12 - x)$	M1dep	oe equation eg $3(x + 2) = 2(12 - x)$ $3x + 6 = 24 - 2x$ $12(x + 2) = 8(12 - x)$ $12x + 24 = 96 - 8x$
	$3x + 2x = 24 - 6$ or $14x + 6x = 72$	M1dep	oe equation with brackets expanded and terms collected eg $5x = 18$ $12x + 8x = 96 - 24$ $20x = 72$
	$\frac{18}{5}$ or $3\frac{3}{5}$ or 3.6	A1	oe
	Additional Guidance		
	$3x + 6$	M1	
	Trial and improvement with $x = 3.6$ chosen	M1M1M1A1	
	Trial and improvement without $x = 3.6$ chosen	MOMOM0A0	