

**Section A: Solving Equations**

1. $8 (4x - 7 = 2x + 9 \rightarrow 2x = 16)$
2. $7 (3(x-2) = 15 \rightarrow x - 2 = 5)$
3. $x = 20, x^2 = 400$
4. $5 (2x + 6 = 16 \rightarrow 2x = 10)$
5. $7 ((23 + 5) \div 4)$

Section B: Expressions, Sequences & Reasoning

1. $17 (2 \times 4 + 3 \times 3 = 8 + 9)$
2. $n + (n + 1)$, which simplifies to $2n + 1$
3. 4, 5, 7, 11
4. $x + x + x$ means three lots of x added together, which is exactly what $3x$ means too - e.g. if $x = 5$, both give $5 + 5 + 5 = 15$ and $3 \times 5 = 15$
5. $x = 5$, so the rectangle is 5cm by 9cm ($2((x+4)+x) = 28 \rightarrow 4x + 8 = 28 \rightarrow x = 5$)