**Generating Formulae**

(a) An equilateral triangle has sides of length $x$ cm. Write a formula for the perimeter $P$ of the triangle.

(b) A helicopter consumes $n$ litres of fuel per minute. Write a formula for the total number of litres $T $consumed during a flight lasting 30 minutes.

(c) Each month I pay $£a $for my house insurance and $£b$ for my car insurance. Find a formula for the total amount $T $I spend on house and car insurance per year.

(d) Jo receives £500 for her birthday, which she saves in a bank. She adds £10 per month to her savings. Find a formula for the amount $£P$ she will have after $m$ months of saving.

(e) A rectangle has length $2x cm$ and width $\left(x+3\right)cm$. Find formulae for the area $A$ and the perimeter $P$ of the rectangle.

(f) Pencils cost 15p each and pens cost 25p each. Write a formula for the cost $C$ of $x$ pencils and $y$ pens.

(g) My brother is 6 years older than me, and my sister is 3 years younger than me. I am $x$ years old. Write a formula for the mean age $M$ of me, my brother and my sister.

(h) A rectangle of dimensions $a$ cm by $b$ cm has a 1 cm square cut from each of its four corners. The sides formed are then folded up to make a rectangular tray. Find a formula for the volume$ V$ of the tray.

**Generating Formulae**

(a) An equilateral triangle has sides of length $x$ cm. Write a formula for the perimeter $P$ of the triangle.

(b) A helicopter consumes $n$ litres of fuel per minute. Write a formula for the total number of litres $T $consumed during a flight lasting 30 minutes.

(c) Each month I pay $£a $for my house insurance and $£b$ for my car insurance. Find a formula for the total amount $T $I spend on house and car insurance per year.

(d) Jo receives £500 for her birthday, which she saves in a bank. She adds £10 per month to her savings. Find a formula for the amount $£P$ she will have after $m$ months of saving.

(e) A rectangle has length $2x cm$ and width $\left(x+3\right)cm$. Find formulae for the area $A$ and the perimeter $P$ of the rectangle.

(f) Pencils cost 15p each and pens cost 25p each. Write a formula for the cost $C$ of $x$ pencils and $y$ pens.

(g) My brother is 6 years older than me, and my sister is 3 years younger than me. I am $x$ years old. Write a formula for the mean age $M$ of me, my brother and my sister.

(h) A rectangle of dimensions $a$ cm by $b$ cm has a 1 cm square cut from each of its four corners. The sides formed are then folded up to make a rectangular tray. Find a formula for the volume$ V$ of the tray.