Name: _____

1. Find the *perimeter* and *area* of the following shapes.

(a)

$x + 4$

x

Perimeter

[ ]

Area

[ ]

(b)

$a + 2$

$a - 3$
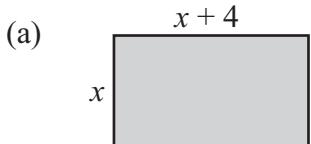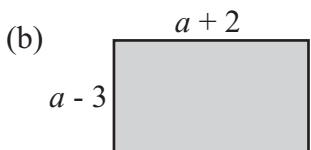
Perimeter

[ ]

Area

[ ]

2. Find an expression in its simplest form for the area of the shaded region in this shape.

$4x + 3$

$2x - 1$

$3x$

x

[ ]
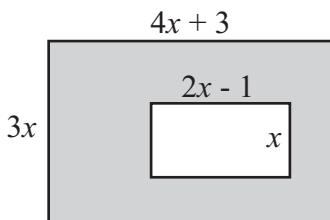
3. A square sheet of board has a side length of x. 6 cm is cut from one side and 8 cm from the other side. Find an expression for the area of the smaller board.

6

x

8

x

[ ]
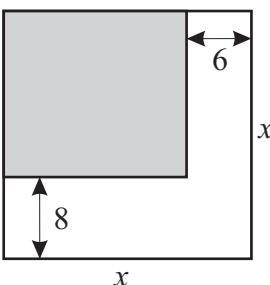
4. Evan decided to save some money over a four month period.
He saved x dollars in the first month. In each of the following three months he increased the amount he saved by $20 each month.
(a) Write expressions, in terms of x, for the amount he saved each month.

1st month	2nd month	3rd month	4th month
[ ]	[ ]	[ ]	[ ]

(b) Write an expression, in its simplest form, for the total amount he saved in the four months.

[ ]

5. Sukie also decide to save some money over a four month period.
She saved x dollars in the first month and for each of the following three months she saved twice the amount she had saved in the previous month.
(a) Write expressions, in terms of x, for the amount she saved each month.

1st month	2nd month	3rd month	4th month
[ ]	[ ]	[ ]	[ ]

(b) Write an expression, in its simplest form, for the total amount she saved in the four months.

[ ]

6. Bobby is y years old. His brother is three years older than Bobby. Bobby's sister is five years younger than Bobby. Bobby's father is three times Bobby's age and four years older than Bobby's mother.
Find an expression, in its simplest form, for the sum of all their ages.

[ ]