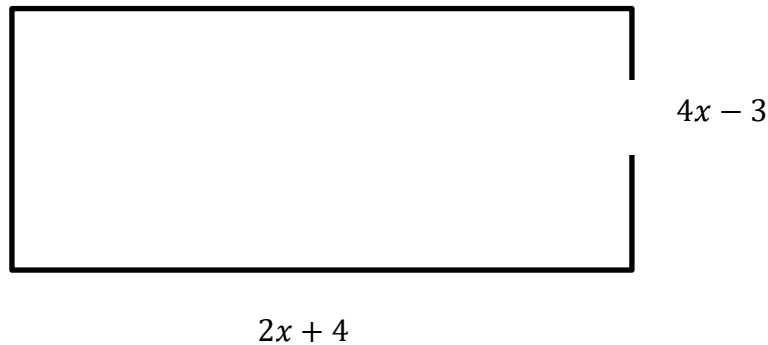


Algebra: Quadratics, Rearranging Formulae and Identities

Exam Questions

Answer all questions fully.

- 1 A field is rectangular in shape. The lengths are given in metres.



- 1 (a) Find an expression for the perimeter of the field.

[2 marks]

Answer _____

- 1 (b) Tick the expression, for the area of the field

[2 marks]

$18x - 12$

$(2x + 4)(4x - 3)$

$8x^2 + 10x - 12$

$6x^2 - 14x - 12$

- 2 A playground is rectangular in shape. An expression is given for the area of the playground in m^2 .

$$\text{Area} = x^2 + 7x - 18$$

- 2 (a) Find an expression for the perimeter of the playground.

[3 marks]

Answer _____

- 2 (b) Given $x = 11$ find the value of the area of the playground in m^2 .

[2 marks]

Answer _____

3 (a) Make x the subject of $4x + 12 = ax + 8y$

[3 marks]

Answer _____

3 (b) Hence or otherwise, given $a = 2$ and $y = 10$, find the value of x .

[2 marks]

Answer _____